

3. HydroView Operations

This chapter explains each operation within HydroView and is designed to assist the user in selecting appropriate functions for monitoring a hydrometeorological situation. It includes a presentation of all pertinent HydroView windows, a HydroView Operations Guide and a HydroView Functional Guide (i.e., a How Do I ? Guide). The windows presented in this chapter are from the operation of the HydroView component of the WHFS. Each window is annotated. Many windows present detailed information for a specific river forecast point, river data point, reservoir station or other hydrometeorological data collection station; therefore a station must be selected prior to their use. Station selection is accomplished through the **Station Selection** option of the **Background** menu in the HydroView root window or by *Clicking* on the desired station in the Geographical Display. Where appropriate, a source window(s) (e.g., the window used to access the featured window) is provided in the background as a reference.

HydroView provides the forecaster with a set of displays for monitoring the hydrometeorological situation. The Geographic Display, along with its various data overlays, is a useful tool for the forecaster. The Geographic Display is controlled through the **Point Display Control** and **Areal Display Control** options of the **LiveData** menu. The forecaster should become familiar with the many features available through these options.

Some screens in HydroView reference various data codes for some parameters. These codes are as referenced in *Standard Hydrometeorological Exchange Format, Weather Service Hydrology Handbook No. 1*.

Flash Flood Monitoring

The Flash Flood Monitoring (FFM) function in the WHFS assists the forecaster with monitoring short-fused flood events (e.g., flash floods). The primary focus of the FFM function is to compare precipitation data with Flash Flood Guidance (FFG) computed and issued to the WFO by the River Forecast Center(s). Both the precipitation data and the FFG data are available separately in HydroView but the FFM couples the two data sets and allows optimal use of all data by the forecaster.

The precipitation data sets that are monitored include observed and forecast precipitation for various durations. The data can be analyzed at different spatial resolutions, including gridded and areal modes, where the areas are either counties, NWS zones, or hydrologic basins. When comparing the precipitation data with FFG data, the comparisons can be performed by computing precipitation as either a percentage of FFG or as a difference from the FFG. The Flash Flood Monitoring and Prediction (FFMP) component of WHFS is being migrated into the SCAN

functionality within D2D. Additional documentation regarding the FFMP component of SCAN can be found at: <<http://www.nws.noaa.gov/tdl/scan/ffmpUGframeset.html>>.

User Interface

The FFM function is resident in HydroView and is accessed through the **LiveData** menu by *Clicking on Areal Display Control*. Data are provide on the Geographical Display. The forecaster can also summarize the FFM features including precipitation monitoring in tabular form by using the Show Summary button on the Areal Display Control window. The appropriate windows are illustrated later in this chapter.

The user can select the data mode, the precipitation data source, and the spatial resolution as follows. Once the mode and precipitation data source are selected, a scrolled list of available products is loaded. The products include one-hour products generated by the Stage I and Stage II processes as well as multi-hour products as scheduled by the forecaster.

The available data modes:

- Precipitation data
- FFG data
- Compare precipitation and FFG data

Precipitation data sources:

- Stage I radar estimates
- Stage II gage-radar estimates
- Stage II gage-only estimates
- QPF

Spatial resolution options:

- Grid
- Basin
- County
- NWS Zone

Troubleshooting HydroView

Most errors associated with the use of HydroView are displayed in a pop-up window or through an error dialog shown on the screen. Generally, the pop-up window states the nature of the error (e.g., a date entered in an improper format). The HydroView application is designed to continue once the error is corrected.

Getting Started

Method One

- 1) From the workstation D2D screen, locate the mouse pointer on a dead area (no windows displayed) and single click the right mouse button. The **System Control Menu** will be displayed.
- 2) Click left mouse button on **Hydro Apps**, the **Hydrologic Applications Menu** will be displayed.
- 3) Click left mouse button on **HydroView** in the **Hydrologic Applications Menu**, the **Main Panel (mp)** window (Figure 6) will be displayed.
- 4) Double click the left mouse button on **HydroView**, the **HydroView Root Window** will be displayed.

Method Two

- 1) From the D2D display, click on **Surface** on the Menu Bar.
- 2) Click left mouse button on **Hydro Apps**, a menu will be displayed.
- 3) Click left mouse button on **HydroView**, the **Main Panel (mp)** window (Figure 6) will be displayed.
- 4) Double click the left mouse button on **HydroView**, the **HydroView Root Window** will be displayed.

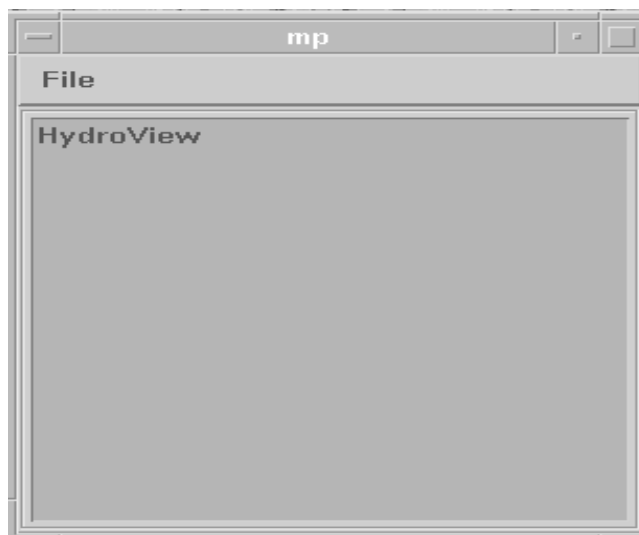


Figure 6. HydroView Main Panel Window

HydroView Windows

The following pages present the various windows used in the operation of HydroView. A list of these windows is provided below.

HydroView Windows

Window	Use	Page
HydroView Root Window	Starting point to access all operations within HydroView	3-7
Areal Viewer Base Window	Adjust Geographical Display using magnification and centering functions	3-10
Areal Viewer Window (Scale Options)	Example of a National View using a Flat Projection	3-11
Areal Viewer Window (Projection Options)	Example of a National View using the Lambert Azimuthal Equal Area Projection	3-12
Station Selection Window	Identify a specific station for further data evaluations	3-14
Background Selection Window	Menu of options of background information available for display	3-15
Point Display Control Window	Display forecast point data on the Geographic Display	3-17
Areal Display Control Window	Display gridded data on Geographic Display	3-18
Areal Display Control Window - Flash Flood Monitoring Function	Examples of Precipitation and Precipitation and Flash Flood Guidance Comparison Displays	3-19
Areal Data Window (Desired Product Settings)	Modify the Available Product Settings on the Areal Data Display Control Window	3-20
Areal Data Window (Precip-FFG Comparison Summary)	Review tabular display of various observed precipitation and flash flood guidance comparisons to evaluate flash flood threats	3-21
Time Series Control Window	Initiate either graphic or tabular time series display(s) for a selected station or predefined time series group	3-22
Graphical Time Series Display Window	Display a graph(s) of the requested time series observations and forecast data for the selected station or predefined time series group	3-23

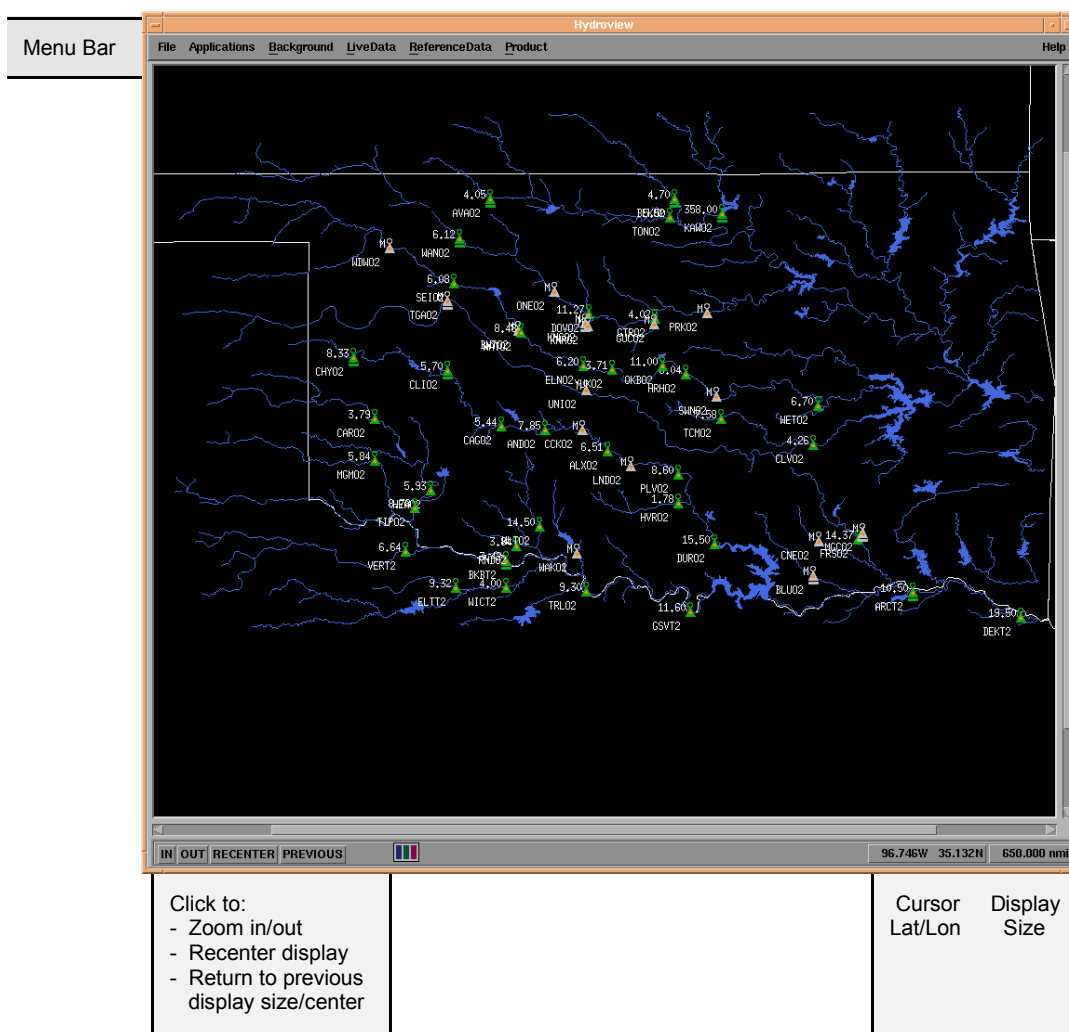
HydroView Windows

Window	Use	Page
Tabular Time Series Display Window	Display tabular time series observations and forecast data for the selected station or predefined time series group, and insert, edit, or delete values in the table	3-24
Alert and Alarm Data Window	Display data that have exceeded alert and alarm thresholds based on value and rate-of-change quality control parameters	3-25
Questionable and Bad Data Window	Display all data marked as questionable or bad during the quality control processes	3-26
Rejected Data Trash Can Window	Display all rejected observations; move records to data tables or delete them from the system	3-27
Station Reporting Status/Latest Observations Window	Display the reporting status of all stations in the HSA for all measured parameters	3-28
Point Precipitation Accumulations Window	Select a point then calculate and display precipitation accumulations information for that point	3-29
Station Profile Window	Display geophysical information and current stage data for the selected station and other stations along the reach	3-30
River Summary Window	Display currently available stage data for all stations along a selected stream	3-31
Refresh Data Window	Load and display the latest available data for the selected station	3-32
Staff Gage Window	Display gage background information for a selected station	3-34
Impact Statement Window	Display the impact statements for various stages for a selected station	3-35
Rating Curve Window	Display the rating curve for selected station	3-36
Data Sources Window	Display information on data sources (e.g., observers) for a selected station	3-37
Contacts Window	Display background information (e.g., telephone numbers) for the contact(s) for a selected station	3-38

HydroView Windows

Window	Use	Page
Crest History Window	Display data and information for historical crests for a selected station	3-39
Dam Catalog Window	Display information on dams (initial dam catalog window)	3-40
Dam Catalog Window (List of Selected Dams)	Example list of dams generated after using Search/Filter Criteria in the initial dam catalog window	3-41
Dam Catalog Window (Information Examples)	Examples of data and information available through Dam Catalog	3-42
Dam Catalog Window (Dam Break Information Example)	Example of dam break forecast data and information available through Dam Catalog	3-43
Product Viewer Window	Display various current and past issued products in the database (e.g., river statement, flood warning, RR1)	3-44
Station Legend Window	Decipher station icons displayed in the Geographic Display	3-45

HydroView Root Window - Starting point to access all operations within HydroView, use the geographic display to monitor hydrologic events

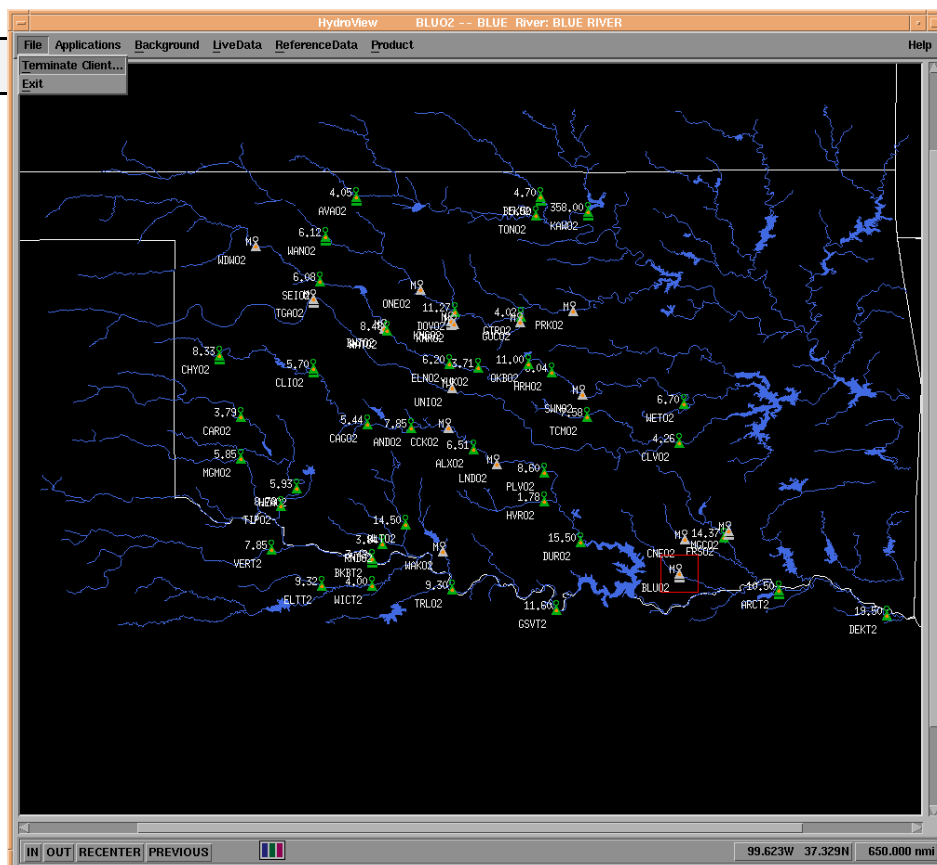


Notes:

- River stations with current data available have a green (normal), yellow (action level) or red (flood) icon. Stations with missing data have a grey icon. Select a station for displays in LiveData, ReferenceData, and Product menus.
- Station can be selected by a single Click on station icon or by using the Select a Station option from the Background menu.
- Current station selected appears in a RED box on the geographic display.
- Double Clicking on a station icon will display the Time Series Control Window. (See pp. 5-22 through 5-24 for information regarding use of the time series display screens. Detailed information regarding the WHFS Time Series Function is contained in Appendix B.)
- To RECENTER, Click RECENTER button, place cursor at desired location and Click again.

Root Window (File selected from the Menu Bar) - Use this selection to exit from HydroView.

Click on File



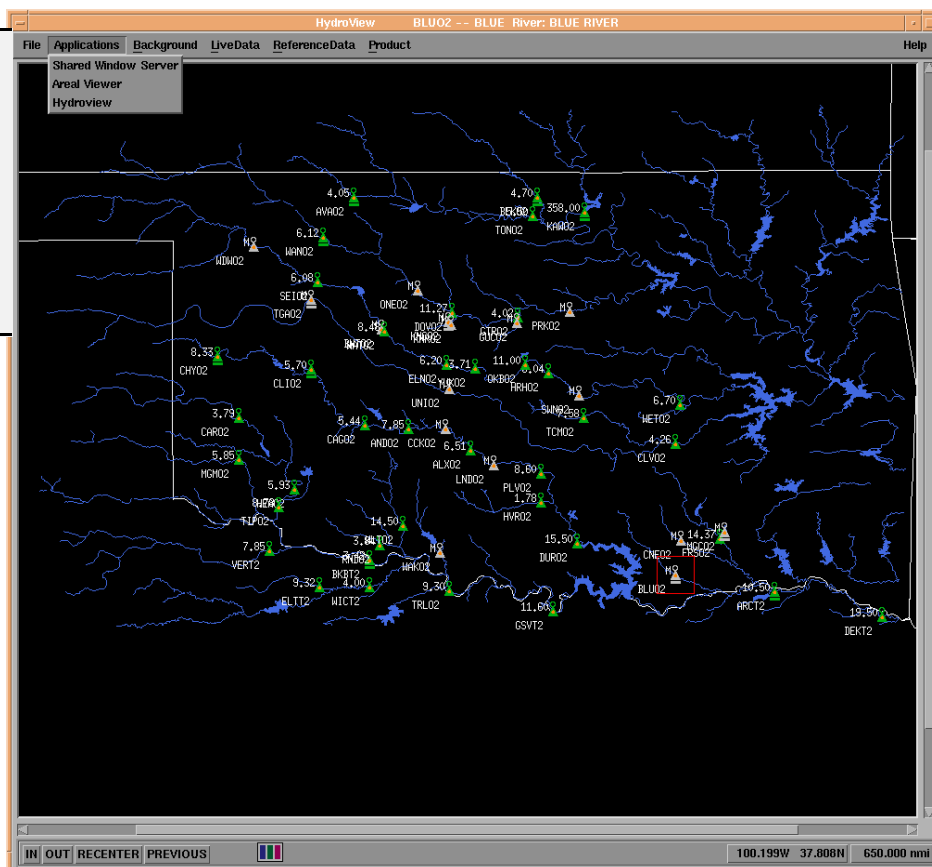
Access this selection from the **Root Window** by *Clicking on File*.

Notes: **Terminate Client is NOT RECOMMENDED** as it will terminate the HydroView application without closing the display. If this occurs, exit and then restart the application.

Root Window (Applications selected from the Menu Bar) - Use this selection to run Shared Window Server, Areal Viewer, or to return to HydroView.

Use Areal Viewer to magnify a selected area on the Geographic Display. To return to original display size, use In, Out or Previous buttons.

Use Hydroview to return to the HydroView display from Shared Window Server or Areal Viewer.



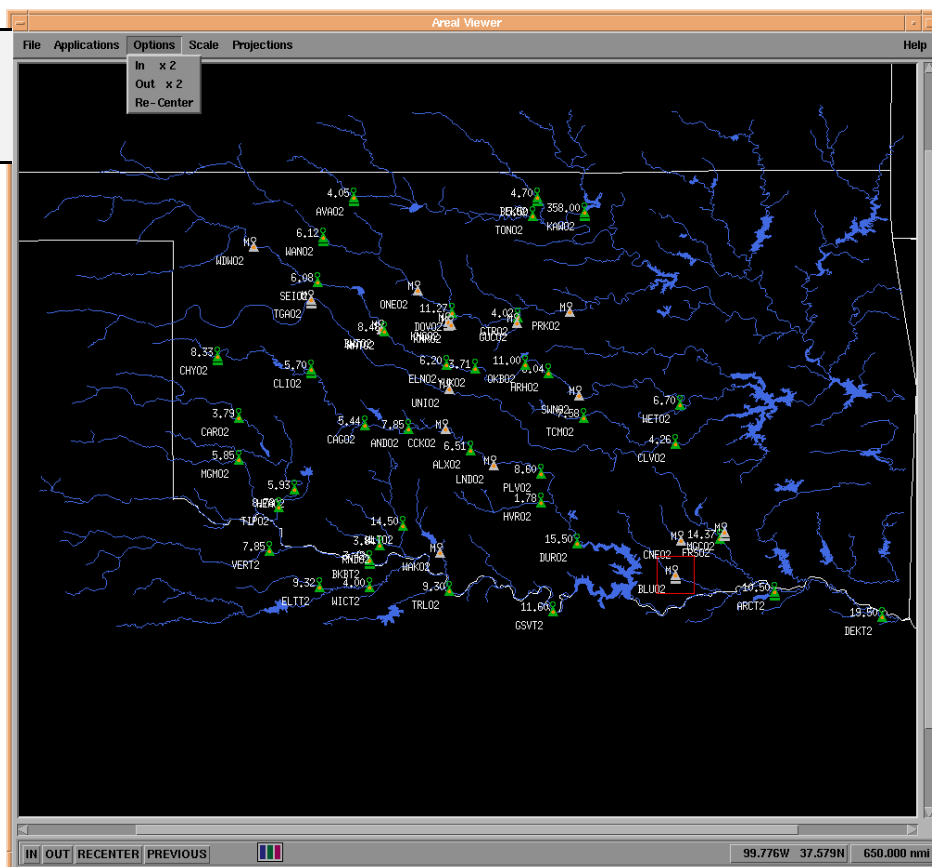
Access this selection from the **Root Window** by *Clicking on Applications*.

Notes:

The use of the **Shared Window Server** client is NOT RECOMMENDED as it may lock up the HydroView display. If this occurs, exit and then restart the application.

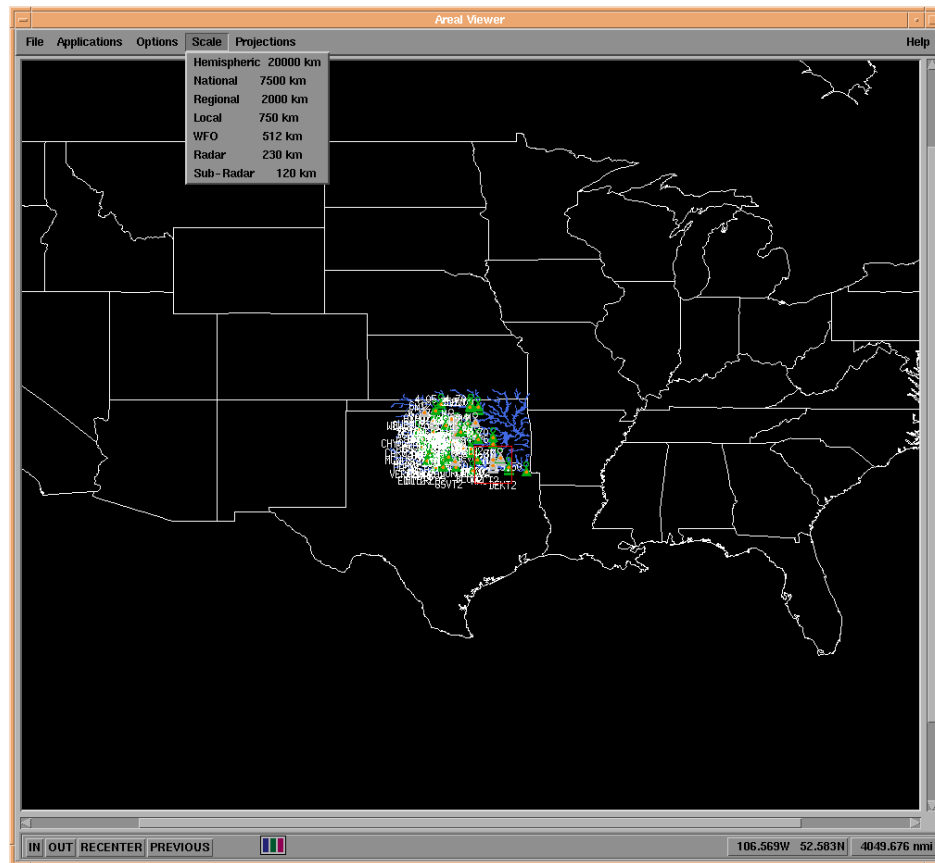
Areal Viewer Base Window - Use this selection to adjust the Geographical Display.

Use Areal Viewer Options to magnify or re-center a selected area on the Geographic Display.



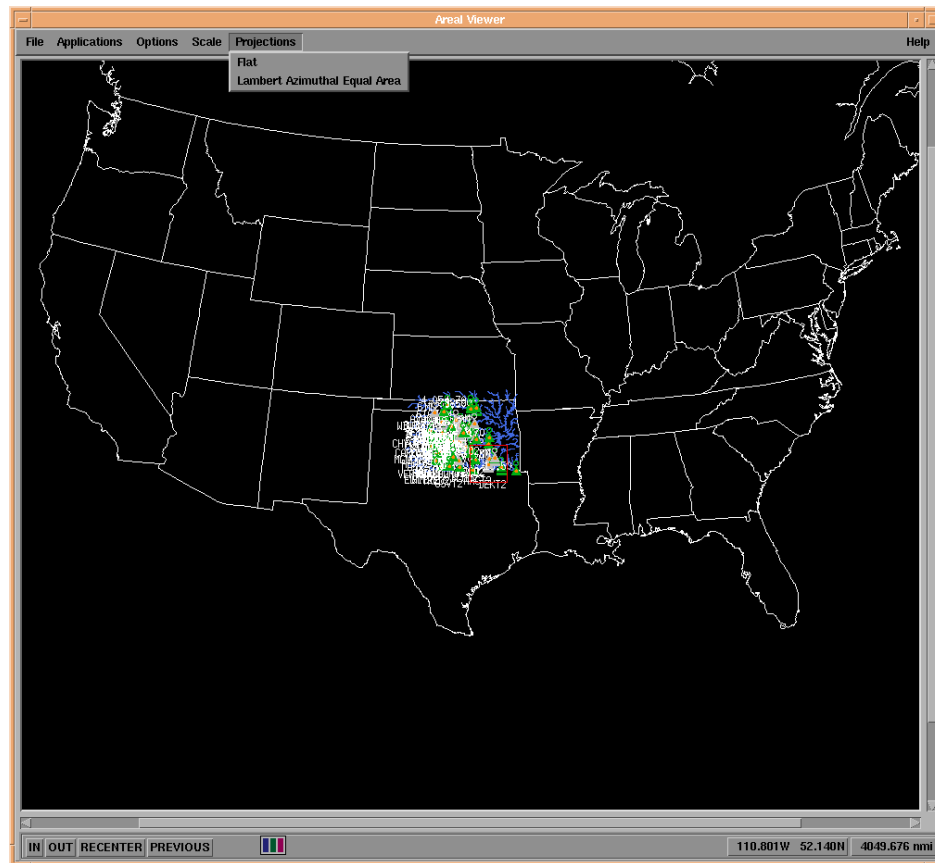
Access this selection from the **Root Window** by *Clicking* on **Applications**, then on **Areal Viewer**.

Areal Viewer Window - Sample screen showing Scale options. National View is displayed using a Flat Projection.



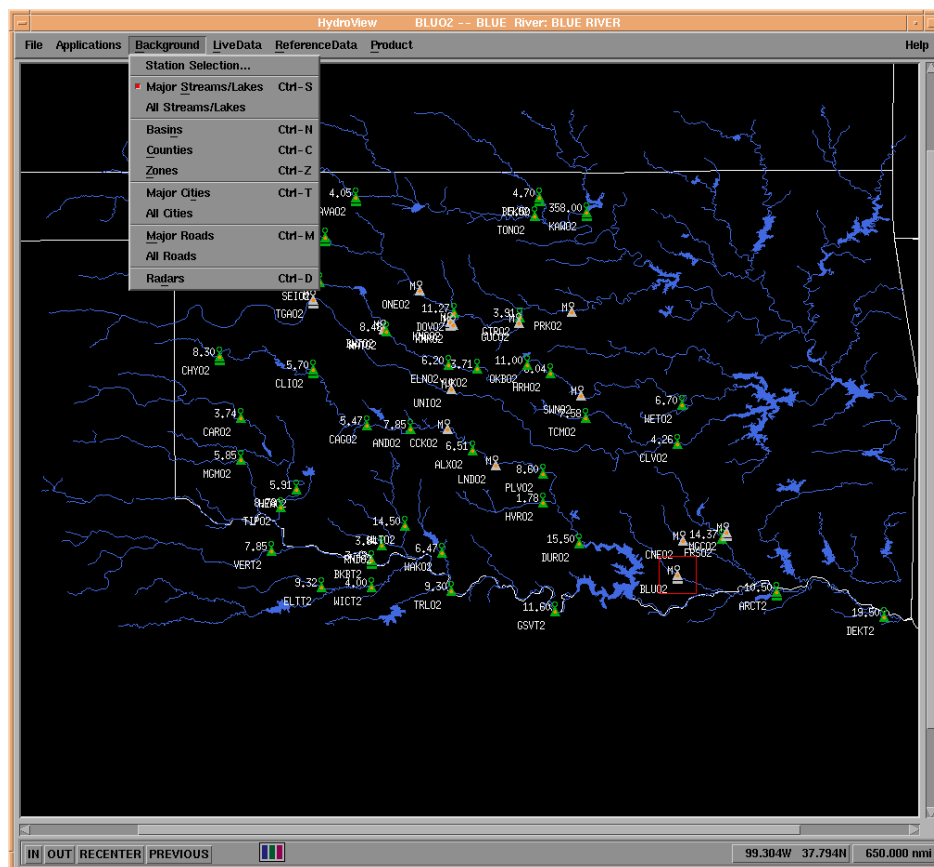
Access this selection from the **Root Window** by *Clicking* on **Applications**, then on **Areal Viewer**.

Areal Viewer Window - Sample screen showing Projection options. National View is displayed using a Lambert Azimuthal Equal Area Projection.



Access this selection from the **Root Window** by *Clicking* on **Applications**, then on **Areal Viewer**.

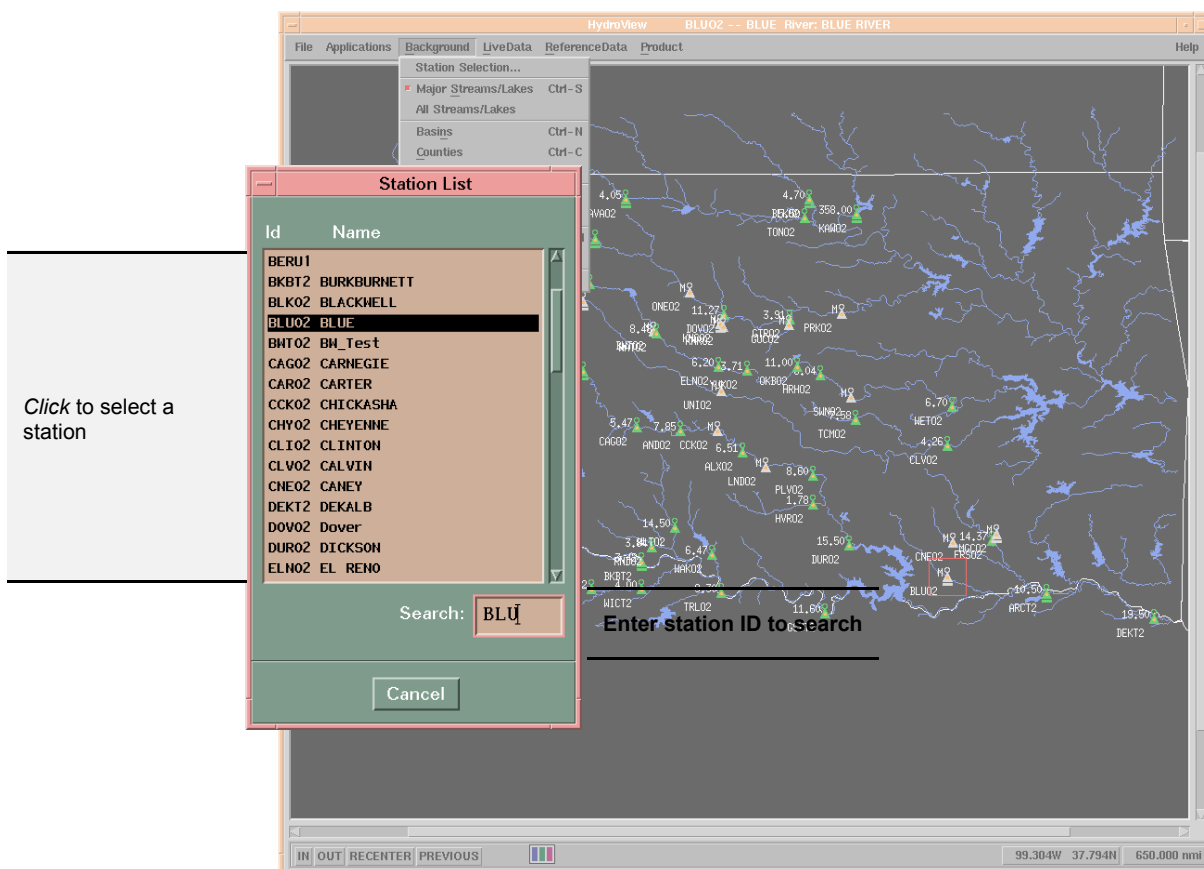
Root Window (Background selected from the Menu Bar) - Use this selection to select a specific station or to vary the background on the **Client Window** Geographic Display.



Access this selection from the **Root Window** by *Clicking* on **Background**.

Notes: Any one background or groups of backgrounds can be selected.
A station may be selected using the Select Station option.

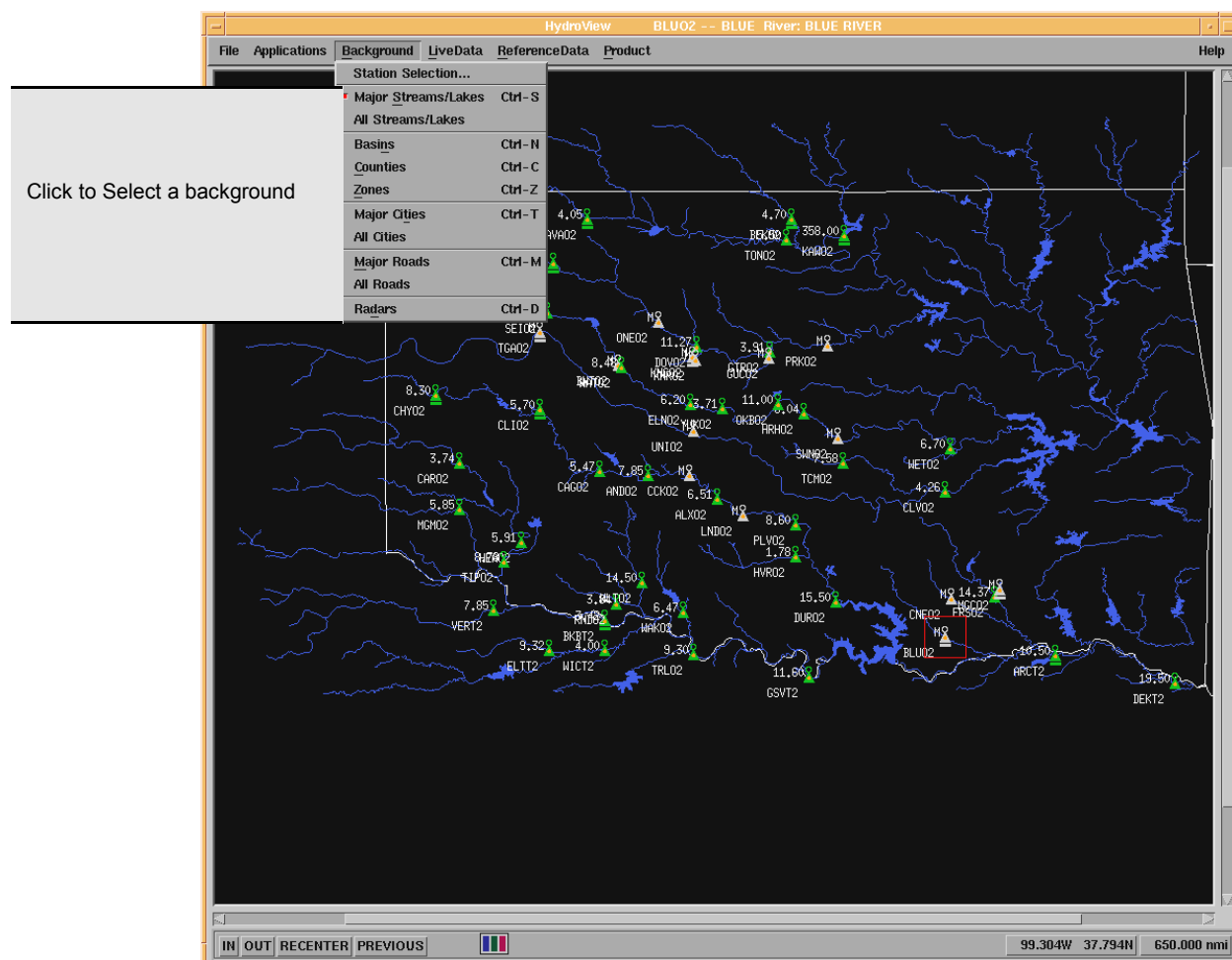
Station Selection Window - Use this selection to identify a specific station for further data evaluations (e.g., in Live Data, Reference Data, and Products).



Access this selection from the **Root Window** by *Clicking* on **Background**, then on **Station Selection**.

Notes: Only a Station ID can be entered in the Search box

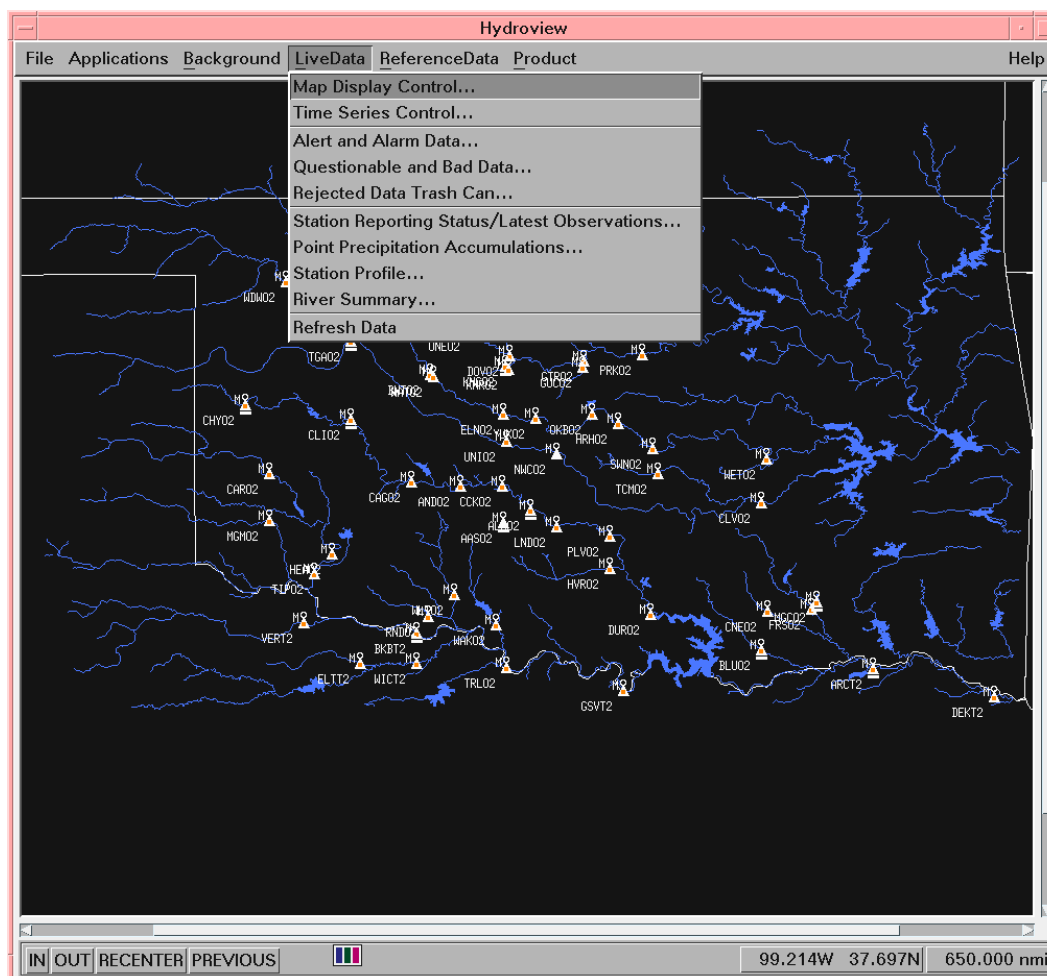
Background Selection Window - Use these menu options to vary the background on the **Client Window** Geographic Display.



Access this selection from the **Root Window** by *Clicking* on **Background**.

Notes: Any one background or groups of backgrounds can be selected.
A station may be selected using the Select Station option.

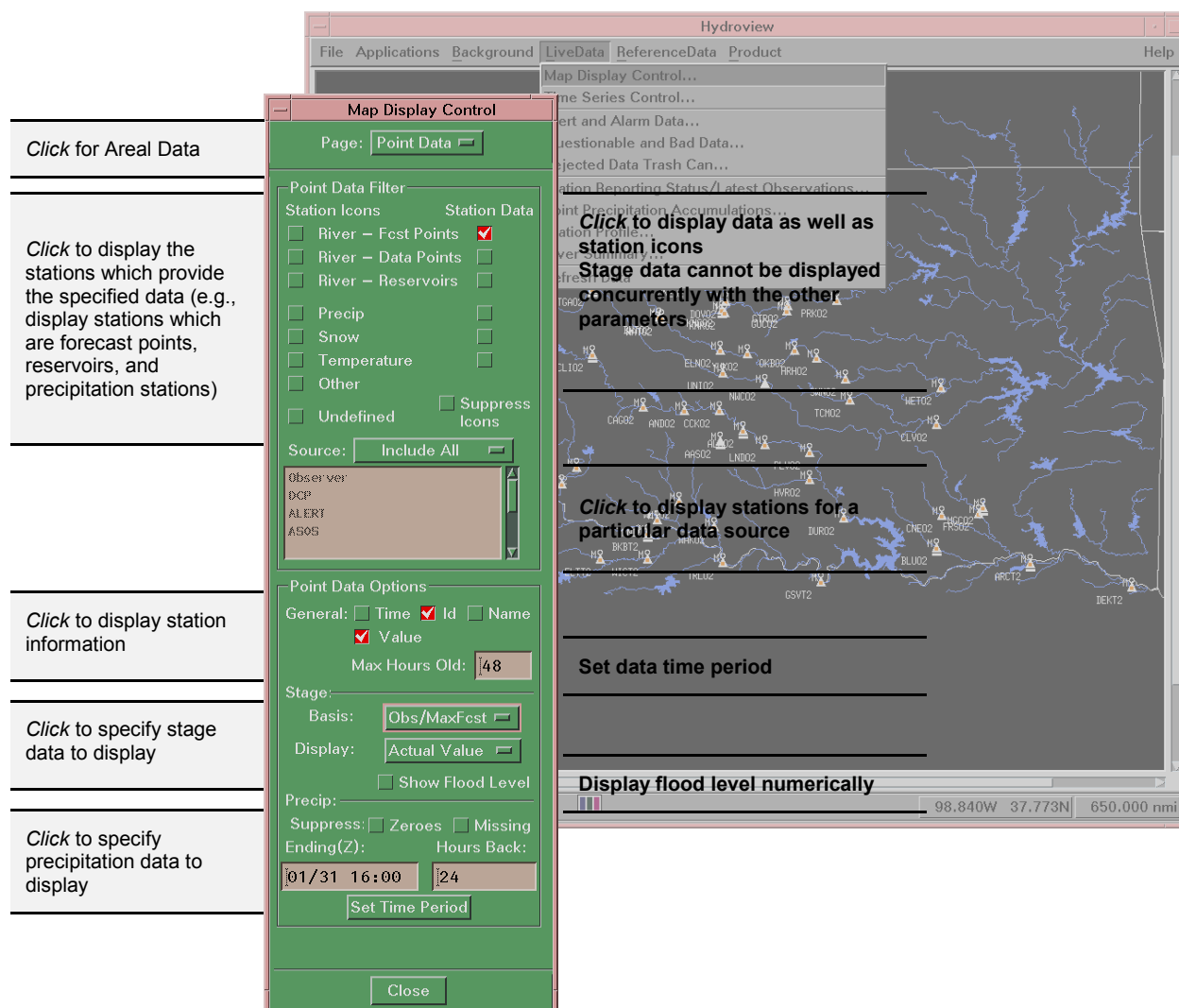
Root Window (Live Data selected from the Menu Bar) - Use this selection to display data and information for the previously selected station.



Access this selection from the **Root Window** by *Clicking* on **LiveData**.

Notes: Realtime data can be displayed for a selected station in several different formats.

Point Display Control Window - Use this selection to display observed/forecast data on the **Root Window** Geographic Display.



Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Map Display Control**. (Page: **Point Data** is the default **Page:** option.)

Notes:

- Point Data Options can be used to filter the information that will be displayed with each icon. The time displayed will coincide with the data value displayed. The data value displayed will be the most recent available value in the selected time period (use Max Hours Old to select time period).
- Stage data displayed can be the observed, the maximum forecast, the maximum of the observed or forecast or the departure of one of these values from flood stage. The flood stage value can also be displayed.
- Precipitation displays can be filtered by suppressing zero or missing values
- Precipitation time period will display total precipitation from the specified end time (limited to 12 hours back from current time) and starting up to 72 hours before the end time and is best set by *Clicking* on the Set Time Period button.
- BE SURE TO SELECT DATA TO BE DISPLAYED FIRST (Point Data Filter).**

Areal Display Control Window - Use this selection to display areal and gridded data on the Root Window Geographic Display.

Click for Point Data

Click for selection of areal data displays

Click on available product desired (based on Mode and Precip selection above). Use Desired Products to adjust the time period presets for the products.

Click to display area information

Select Precip-FFG comparisons as ratio or numerical difference (Use Mode to display comparisons). Select Show Summary... to display in tabular form.

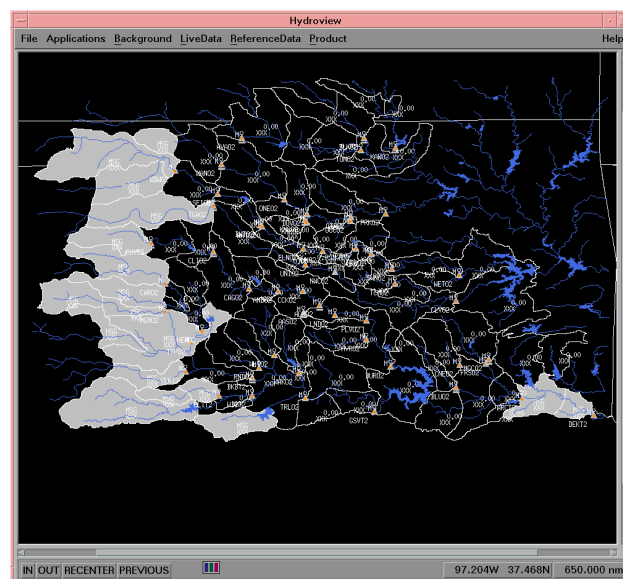
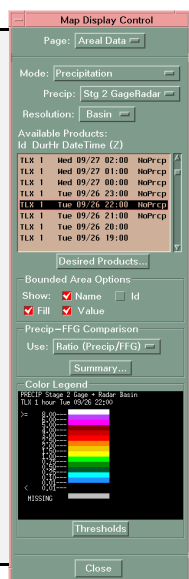
Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Map Display Control**, then on **Page: Areal Data**.

Notes:

- Mode** options include *Precipitation*, *Flash Flood Guidance* and *Compare Precip & FFG*
- Precip** options include *Stg 1 Radar*, *Stg 2 Gage*, *Stg 2 GageRadar* and *QPF*
- Resolution** options include *Grid*, *County*, *Zone* and *Basin*
- Color legend is displayed when areal plots are displayed (e.g. radar grids, FFG and MAPs). The color choices and corresponding thresholds can be adjusted using the *Thresholds* button.
- Once a mode and options have been selected and displayed, the geographical display can be cleared by switching to different mode.

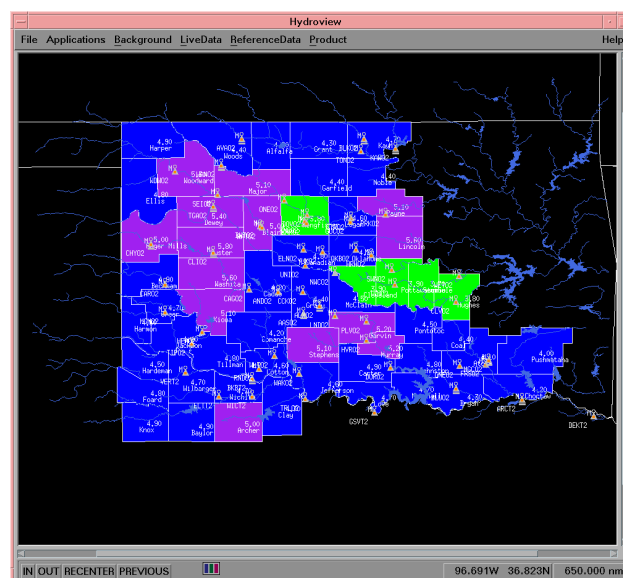
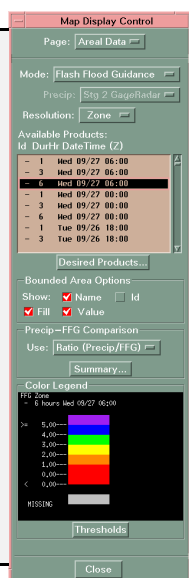
Areal Display Control Window - Flash Flood Monitoring Function - Presented are examples of Precipitation and Precipitation and Flash Flood Guidance Comparison displays.

Selection of the Areal Data Display options shown provides the data display presented at the far right.



Stage II Gage/Radar Precipitation Display

Selection of the Areal Data Display options shown provides the data display presented at the far right.



Precipitation/FFG Ratio Comparison

Access these selections from the **Root Window** by successively *Clicking* on **LiveData**, **Map Display Control**, **Page: Areal Data**, and then on the options shown.

Notes:

The various data modes, precipitation sources and resolutions are discussed on the previous page and in the introduction to this chapter.

Areal Data Window (Desired Product Settings) - Use this selection to modify the Available Product Settings on the Areal Data Display Control Window.

Modify the absolute settings by *Clicking* on a setting and changing the End Hour, Duration and/or Hours to Look Back or by deleting the entry. *Click Apply* to activate IN THIS WINDOW ONLY.

Modify the relative settings (relative to the current time) by *Clicking* on a setting and changing the Hour Offset (from the current time) and/or Duration or by deleting the entry. *Click Apply* to activate IN THIS WINDOW ONLY.

Desired Product Settings

Hour Settings

End Hour	Duration	LookBack	Activity
0 Z	3 hours	24 hours	Active
3 Z	3 hours	24 hours	Active
6 Z	3 hours	24 hours	Active
9 Z	3 hours	24 hours	Active
12 Z	3 hours	24 hours	Active
15 Z	3 hours	24 hours	Active
18 Z	3 hours	24 hours	Active
21 Z	3 hours	24 hours	Active

End Hour: ☒ Active ☐ Inactive

Duration (hours):

Hours to Look Back:

Hour Offset Settings

End Time (Hours Ago)	Duration	Activity
0 hours	3 hours	Active
0 hours	6 hours	Active
0 hours	12 hours	Active
0 hours	24 hours	Active

Hour Offset: ☒ Active ☐ Inactive

Duration (hours):

Desired Products:

Duration(hours)	End Time
3	hours Fri 01/05 20:00
6	hours Fri 01/05 20:00
12	hours Fri 01/05 20:00
24	hours Fri 01/05 20:00
3	hours Fri 01/05 18:00
6	hours Fri 01/05 18:00
3	hours Fri 01/05 15:00
3	hours Fri 01/05 12:00
6	hours Fri 01/05 12:00
12	hours Fri 01/05 12:00
24	hours Fri 01/05 12:00
3	hours Fri 01/05 09:00
3	hours Fri 01/05 06:00
6	hours Fri 01/05 06:00
3	hours Fri 01/05 03:00
3	hours Fri 01/05 00:00
6	hours Fri 01/05 00:00
12	hours Fri 01/05 00:00
24	hours Fri 01/05 00:00
3	hours Thu 01/04 21:00
6	hours Thu 01/04 18:00
6	hours Thu 01/04 12:00
12	hours Thu 01/04 12:00
6	hours Thu 01/04 06:00
6	hours Thu 01/04 00:00
12	hours Thu 01/04 00:00
24	hours Thu 01/04 00:00

Use the information in this column to note products desired. No changes can be made here.

Access this selection from the **Root Window** by successively *Clicking* on **LiveData**, **Map Display Control**, **Page: Areal Data**, then on **Desired Products** (in the Map Display Control Window).

Notes: The Desired Products Settings can be used to modify the Available Products list on the Areal Data Display Control which then can be displayed in the geographic display in the HydroView Root Window. The absolute settings (Hour Settings) are typically set to common end hours (e.g., 00Z, 03Z). To set up settings based on the current time, use the relative settings (Hour Offset Settings).

Areal Data Window (Precip-FFG Comparison Summary) - Used to review a tabular display of various observed precipitation and flash flood guidance comparisons to evaluate flash flood threats by quickly scanning the data and determining areas of concern.

Select data source (Stage 1 Radar, Stage 2 Gage Only or Stage 2 Radar/Gage). Available precipitation and FFG data are listed.

Use to filter stations listed below and to prioritize the order of the list (Sort By).

Sorted data are displayed here. When more information about a particular area is desired, select the area from the list and the detailed information for all durations is shown in the lower portion of the window.

Summary of Latest Observed Precip and FFG Data

DATA SOURCE: ☐ Use ☒ Stage 1 Radar ☐ Stage 2 Gage Only ☐ Stage 2 Radar/Gage

Precip Data for Radar Area:

Precip Data: 1 hour data ending 20:00 Fri 01/05
3 hour data ending 20:00 Fri 01/05
6 hour data ending 20:00 Fri 01/05
12 hour data ending 20:00 Fri 01/05
24 hour data ending 20:00 Fri 01/05

FFG Data: 1 hour data valid at 18:00 Fri 01/05
3 hour data valid at 18:00 Fri 01/05
6 hour data valid at 18:00 Fri 01/05
12 hour data not available
24 hour data not available

FILTER/SORT: Show ☒ Basin ☐ Areas

Show Values:

Sort By:

Value Type: ☐ PrecipRate (in/hr)
☒ Percent (Precip/FFG)
☐ Difference (Precip-FFG)

Area Id	Name	Area(mi2)	HrDur	Precip	FFG	Percent	Difference	PrecipRate
ALTO2	XXX	164.8	1	0.00	1.70	0 %	-1.70	0.00
ALX02	XXX	1113.1	1	0.00	1.50	0 %	-1.50	0.00
AND02	XXX	200.2	1	0.00	1.60	0 %	-1.60	0.00
ARBO2	XXX	130.3	1	0.00	1.52	0 %	-1.52	0.00
BKBT2	XXX	785.6	1	0.00	1.80	0 %	-1.80	0.00
BLU02	XXX	446.2	1	0.00	1.49	0 %	-1.49	0.00
BRI02	XXX	879.5	1	0.00	1.71	0 %	-1.71	0.00
CAGO2	XXX	1146.9	1	0.00	1.71	0 %	-1.71	0.00
CLIO2	XXX	486.5	1	0.00	1.78	0 %	-1.78	0.00
CLMO2	XXX	202.2	1	0.00	1.50	0 %	-1.50	0.00
CLV02	XXX	1187.9	1	0.00	1.62	0 %	-1.62	0.00
CNE02	XXX	688.9	1	0.00	1.56	0 %	-1.56	0.00
CNLO2	XXX	223.1	1	0.00	1.86	0 %	-1.86	0.00

Info for the Duration with the Most Critical Value

Details for ALTO2 - XXX

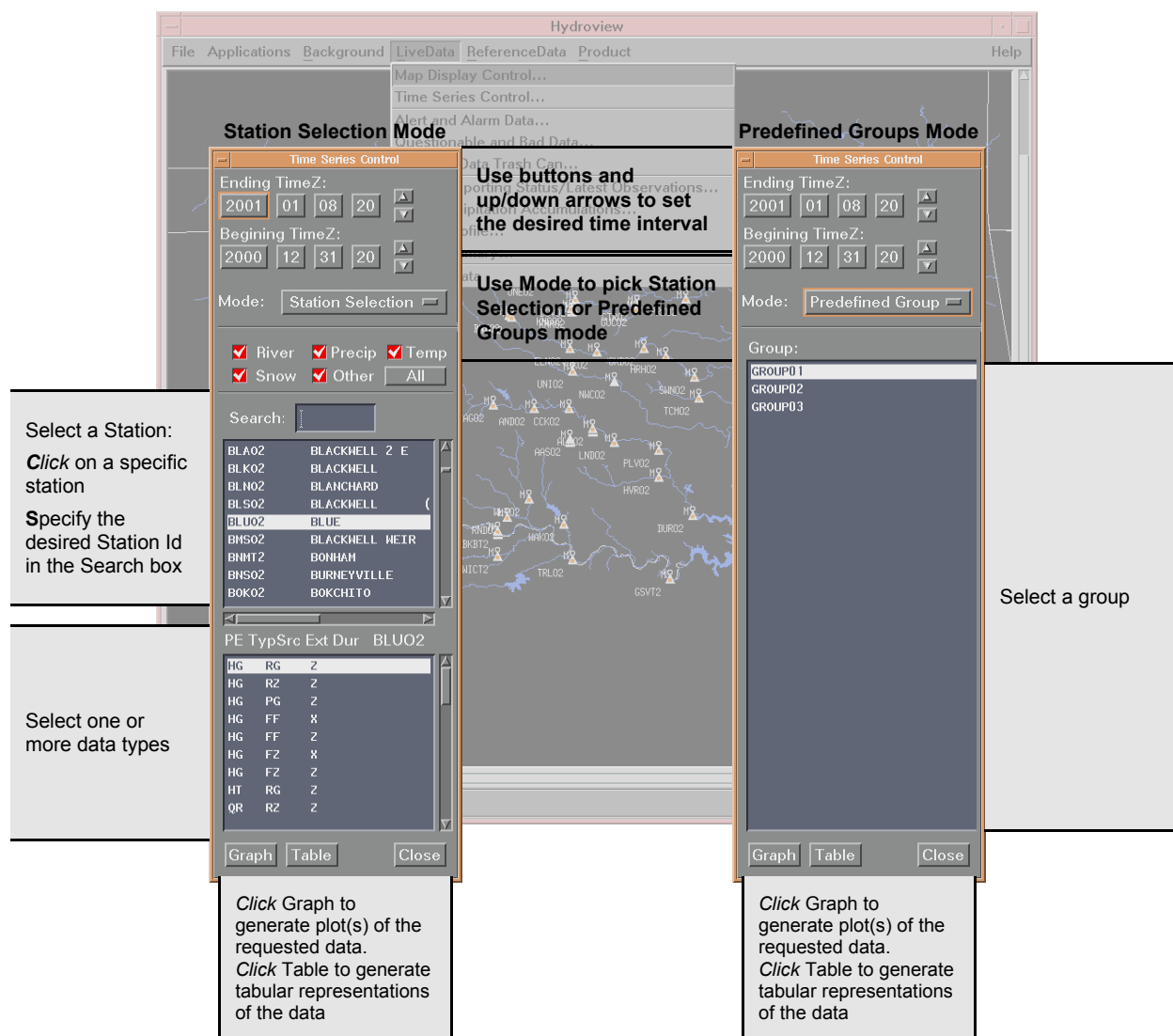
Duration	Precip	FFG	Percent	Difference	PrecipRate	PrecipMax	PrecipMin
1	0.000	1.70	0 %	-1.70	0.00	0.00	0.00
3	0.000	2.00	0 %	-2.00	0.00	0.00	0.00
6	0.000	2.54	0 %	-2.54	0.00	0.00	0.00
12	0.000	n	n	n	0.00	0.00	0.00
24	0.000	n	n	n	0.00	0.00	0.00

Close

Access this selection from the **Root Window** by successively *Clicking* on **LiveData**, **Map Display Control**, **Page: Areal Data**, and **Summary** (under Precip-FFG Comparison).

Notes: When sorting by Value, the most critical stations (based on the selected value-type option) are displayed first.
The Show Values filter above lists all stations or only those stations with values \leq or \geq the entered value. The value it considers is specified using Value Type.

Time Series Control Window - Use this selection to initiate either graphic or tabular time series data displays for a specifiable time period for either a specified station or a predefined group.



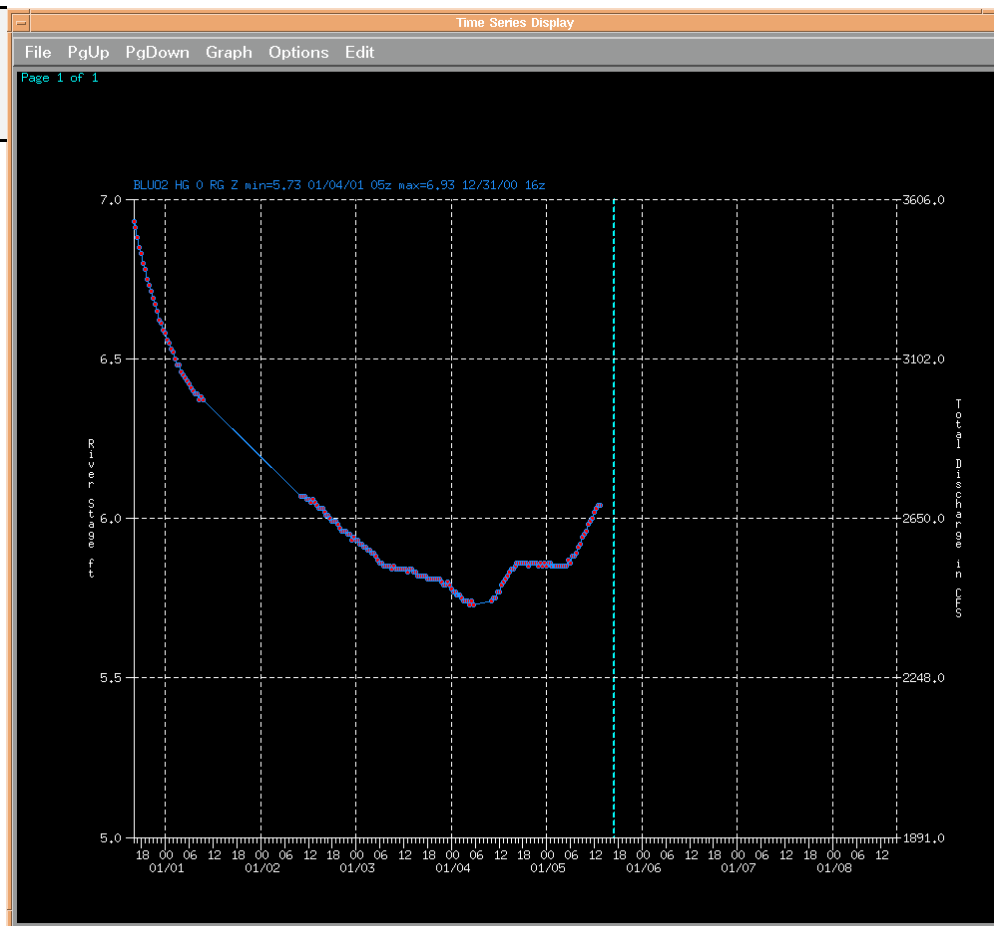
Access this selection from the **Root Window** by Clicking on **LiveData**, then on **Time Series Control**. Alternately, this selection can be accessed by double clicking on the station icon in the **Geographical Display**.

Notes:

- Plot request is defined via the **Time Series Control Window**; the Graph or Table pushbutton is selected to generate and display the time series.
- Default time period is 5 days in the past to 3 days in the future, based on current time.
- Multiple data types may be specified in Station Selection mode only if they are in the same physical element class. Exceptions: PC and PP may not both be chosen; only one PP data type may be chosen.
- See Appendix D for a full discussion of the WHFS Time Series Function.

Graphical Time Series Display Window - Use this window to view the graphical time series representation for the selected station or pre-defined group. (See **Time Series Control Window**, p. 3-22.)

Use the various menu options to view other graphs in the predefined group



Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Time Series Control**, then the **Graph** pushbutton. Alternately, access this selection from the **Root Window** by *Double Clicking* on a station icon, then *Clicking* the **Graph** pushbutton.

Notes: Appendix D contains a full description of the functionality available within the **Time Series Graphical Display Window**.

Tabular Time Series Display Window - Use this window to view the tabular time series representation for the selected station or predefined group, and to view, insert, edit, or delete individual values. (See **Time Series Control Window**, p. 3-22.)

Select a time series type for display below

Time series values for the selected type.

Click on a value and data are displayed below.

Delete or update the selected value OR add a new value to the table

SHEF Encode Section -
Clear product
Build, review, distribute product

The screenshot shows the 'Tabular Time Series' window. At the top, it displays the 'Time Period(Z): 2000-12-31 16:00:00 thru 2001-01-08 16:00:00'. Below this is a list of time series types (LOC, PE, DUR, TS, E, Basis Time(Z)) with 'BLU02 HG' selected. To the right, there's a section for 'New Data Information' with fields for 'Product ID and Time' (CCCCWRKXXX, 2001-01-05 16:59:40) and 'Basis Time' (2001-01-05 16:59:40). Below the list, the 'Selected Time Series: BLU02 HG RG Z' is shown, along with 'Derived Flood Stage: 21.00 Flood Flow: 42000'. A table of values follows, with columns for Value, Flow, Time(Z), RV, SQ, QC, Product, Time, and Posted. The value 5.89 is highlighted. Below the table, there's a section for 'Passed All Tests' and 'Edit Selected' with fields for 'Value' (5.89) and 'Time' (2001-01-05 07:30:00). At the bottom, there are buttons for 'Update/Insert', 'Delete selected', 'SHEF Encode Selected', 'Clear Product', 'Save Table to File', 'Review Product', 'Review Send Script', 'Send Product', 'Product: CCCCNNNXXX', 'Send Table to Printer', and 'Close'.

Data used for new table value if check box selected

Click Edit to modify these data

Options to save the time series table to a file or make a hard copy

Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Time Series Control**, then the **Table** pushbutton. Alternately, access this selection from the **Root Window** by *Double Clicking* on a station icon, then *Clicking* the **Table** pushbutton.

Notes:

- Values may be added, edited, or deleted.
- Products may be generated, reviewed, distributed, or cleared.
- Appendix D contains an in-depth description of all of the functions of the Tabular Time Series.

Alert and Alarm Data Window - Use this selection to display data that have exceeded alert and alarm thresholds based on value and rate-of-change.

Use **Show** options to select displayed data filters
Use **Sort By** options to specify sort order

Click on an item to display preset alert/alarm limits and other details below

Location	PE	Dur	TS	Ext	Value	QC	ThreatDescr	ValidTime	BasisTime
BLU02	HG	0	FZ	Z	7.30	Q	value alarm	01-07 12:00	01-05 14:33
BLU02	HG	0	FF	Z	7.50	Q	value alarm	01-07 06:00	01-05 14:33
BLU02	HG	0	FZ	Z	7.50	Q	value alarm	01-07 06:00	01-05 14:33
BLU02	HG	0	FF	Z	7.80	Q	value alarm	01-07 00:00	01-05 14:33
BLU02	HG	0	FZ	Z	7.80	Q	value alarm	01-07 00:00	01-05 14:33
BLU02	HG	0	FF	Z	8.00	Q	value alarm	01-06 18:00	01-05 14:33
BLU02	HG	0	FZ	Z	8.00	Q	value alarm	01-06 18:00	01-05 14:33
BLU02	HG	0	FZ	Z	8.10	Q	value alarm	01-06 12:00	01-05 14:33
BLU02	HG	0	FF	Z	8.10	Q	value alarm	01-06 12:00	01-05 14:33
BLU02	HG	0	FZ	Z	8.20	Q	value alarm	01-06 06:00	01-05 14:33
BLU02	HG	0	FF	Z	8.20	Q	value alarm	01-06 06:00	01-05 14:33
BLU02	HG	0	FF	Z	8.00	Q	value alarm	01-06 00:00	01-05 14:33
BLU02	HG	0	FZ	Z	8.00	Q	value alarm	01-06 00:00	01-05 14:33
WET02	HG	0	RG	Z	3.12	G	roc alert	01-05 19:45	-----
WET02	HG	0	RG	Z	-3.76	G	roc alert	01-05 19:15	-----
WET02	HG	0	RG	Z	3.12	G	roc alert	01-05 19:00	-----
BLU02	HG	0	FZ	Z	7.20	Q	value alarm	01-05 18:00	01-05 14:33
BLU02	HG	0	FF	Z	7.20	Q	value alarm	01-05 18:00	01-05 14:33
BLU02	HG	0	RG	Z	6.09	Q	value alarm	01-05 17:30	-----
BBR02	HG	0	RG	Z	4.96	G	roc alert	01-05 17:00	-----
BLU02	HG	0	RG	Z	6.09	Q	value alarm	01-05 17:00	-----
BLU02	HG	0	RG	Z	6.08	Q	value alarm	01-05 16:30	-----

Details for Selected Item

Limits: Value Rate-of-Change Product: **KTUARVFOKC** **Fri 01/05 14:47**

Alert: **3.8** **1.0** Posting Time: **Fri 01/05 14:48**

Alarm: **4.0** **1.5** Time Last Reported: **Fri 01/05 21:37**

Click to activate
Tabular Time
Series display

Click to activate
Graphical Time
Series display

Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Alert and Alarm Data**.

Notes: Use the **Show** filter options to display only those alert and alarm data records of interest. Options include All, Observed, or Forecast data records; Alerts, Alarms, or both Alert/Alarms data records **Exceeding** Any Limit, Value, or Rate-of-Change (roc). **Click Tabular Time Series** or **Graphical Time Series** to view the record within its time series context and edit real time data. Time Series displays and features are shown on pp. 3-22 through 3-24. An in-depth discussion of the time series function is contained in Appendix D.

This display is read-only; changes to data or alert/alarm limits cannot be made.

Questionable and Bad Data Window - Use this selection to display all data that have been marked as questionable or bad by the quality control processes.

Filter data anomalies list by Location and/or by Observation Type pull-down list (default is all locations)

Select number of days back to list

Click on an item above to view quality control data anomaly description

Click to activate Tabular Time Series display

Click to activate Graphical Time Series display

Hydroview

File Applications Background LiveData ReferenceData Product Help

Map Display Control... Time Series Control... Alert and Alarm Data... Questionable and Bad Data... Can... Status/Latest Observations... Accumulations...

Sort options for data list

Questionable and Bad Data

Filter By: ☐ Location ☒ BLU02

Location PE Dur TS Ext Value

SEYT2	HG	0	RG	Z	6.00
SEYT2	HG	0	RG	Z	6.00
SEYT2	HG	0	RG	Z	6.00
SEYT2	HG	0	RG	Z	6.00
CRL02	HG	0	RG	Z	1.26
BIR02	HP	0	RG	Z	747.94
SEYT2	HG	0	RG	Z	6.00
CRL02	HG	0	RG	Z	1.26
BIR02	HP	0	RG	Z	747.95
HRH02	HG	0	RG	Z	6.17
SEYT2	HG	0	RG	Z	6.00
CRL02	HG	0	RG	Z	1.26
BIR02	HP	0	RG	Z	747.93
HRH02	HG	0	RG	Z	5.87
SEYT2	HG	0	RG	Z	6.00
CRL02	HG	0	RG	Z	1.26
BIR02	HP	0	RG	Z	747.94

Height (Stage) Last 1 days Sort By: ☐ Location ☒ Time

RV	SQ	QC	Product	Time	Posted
F	F	Q	NMCRRSOUN	01-05 21:21	01-05 21:25
F	F	Q	NMCRRSOUN	01-05 21:21	01-05 21:25
F	F	Q	NMCRRSOUN	01-05 21:21	01-05 21:25
F	F	Q	NMCRRSOUN	01-05 21:21	01-05 21:25
F	F	Q	NMCRRSOUN	01-05 19:57	01-05 20:01
F	F	Q	NMCRRSOUN	01-05 19:49	01-05 19:54
F	F	Q	NMCRRSOUN	01-05 21:21	01-05 21:25
F	F	Q	NMCRRSOUN	01-05 19:57	01-05 20:01
F	F	Q	NMCRRSOUN	01-05 19:49	01-05 19:54
F	F	Q	NMCRRSOUN	01-05 19:12	01-05 19:16
F	F	Q	NMCRRSOUN	01-05 21:21	01-05 21:25
F	F	Q	NMCRRSOUN	01-05 19:57	01-05 20:01
F	F	Q	NMCRRSOUN	01-05 19:49	01-05 19:54

QC Description Questionable: Failed External Test

Tabular Time Series Close Graphical Time Series

Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Questionable and Bad Data**.

Notes: Other than entering the station location and setting the number of days back, no information or data can be changed in this window. Time Series displays and features are shown on pp. 3-22 through 3-24. An in-depth discussion of the time series function is contained in Appendix D.

Rejected Data Trash Can Window - Use this selection to display manually or automatically rejected observations, move them to data tables, or delete them from the system.

Rejected Data Trash Can

Filter By: ☐ Location: ☐ Phys. Element: Sort By:

Reject Type:

Location	PE	Dur	TS	Extr	Value	ObsTime	BasisTime	RV	SQ	QC	User	Type	PostTime	Product	ProdTime
OKB02	TH	0	RG	2	19.00	01/03 10:00	N/A	F	2	B	SHEFdec	Auto	01/03 11:22	NMCRRSOUN	01/03 11:12
OKB02	TH	0	RG	2	20.00	01/03 09:00	N/A	F	2	B	SHEFdec	Auto	01/03 11:22	NMCRRSOUN	01/03 11:12
OKB02	TH	0	RG	2	20.00	01/03 08:00	N/A	F	2	B	SHEFdec	Auto	01/03 11:22	NMCRRSOUN	01/03 11:12
OKB02	TH	0	RG	2	20.00	01/03 03:00	N/A	F	2	B	SHEFdec	Auto	01/03 03:16	NMCRRSOUN	01/03 03:12
OKB02	TH	0	RG	2	20.00	01/03 02:00	N/A	F	2	B	SHEFdec	Auto	01/03 03:16	NMCRRSOUN	01/03 03:12
OKB02	TH	0	RG	2	22.00	01/03 01:00	N/A	F	2	B	SHEFdec	Auto	01/03 03:16	NMCRRSOUN	01/03 03:12
OKB02	TH	0	RG	2	26.00	01/03 00:00	N/A	F	2	B	SHEFdec	Auto	01/03 03:16	NMCRRSOUN	01/03 03:12
OKB02	TH	0	RG	2	27.00	01/02 17:00	N/A	F	2	B	SHEFdec	Auto	01/02 19:16	NMCRRSOUN	01/02 19:13
OKB02	TH	0	RG	2	22.00	01/02 16:00	N/A	F	2	B	SHEFdec	Auto	01/02 19:16	NMCRRSOUN	01/02 19:13
OKB02	TH	0	RG	2	20.00	01/02 15:00	N/A	F	2	B	SHEFdec	Auto	01/02 15:21	NMCRRSOUN	01/02 15:14
OKB02	TH	0	RG	2	19.00	01/02 14:00	N/A	F	2	B	SHEFdec	Auto	01/02 15:21	NMCRRSOUN	01/02 15:14
OKB02	TH	0	RG	2	19.00	01/02 13:00	N/A	F	2	B	SHEFdec	Auto	01/02 15:21	NMCRRSOUN	01/02 15:14
OKB02	TH	0	RG	2	19.00	01/02 12:00	N/A	F	2	B	SHEFdec	Auto	01/02 15:21	NMCRRSOUN	01/02 15:14
RD002	HG	0	RG	2	3668.00	01/03 05:30	N/A	F	2	B	SHEFdec	Auto	01/03 08:05	NMCRRSOUN	01/03 08:01
RD002	HG	0	RG	2	3668.00	01/03 05:30	N/A	F	2	B	SHEFdec	Auto	01/03 08:05	NMCRRSTUL	01/03 08:01
SEYT2	TH	0	RG	2	26240.00	01/03 21:00	N/A	F	F	B	SHEFdec	Auto	01/03 21:25	NMCRRSOUN	01/03 21:20
SEYT2	TH	0	RG	2	26186.00	01/03 20:30	N/A	F	F	B	SHEFdec	Auto	01/03 21:25	NMCRRSOUN	01/03 21:20

Move Selected to Data Tables Delete Selected Delete All Close

Click to move the selected item from the trash to the appropriate database table

Click to delete the selected item from the system

Click to delete all of the list items from the system

Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Rejected Data Trash Can**.

Notes: Data that are not removed or deleted from this list are purged by the system after the retention period (defined through HydroBase) has elapsed.

Station Reporting Status/Latest Observations Window - Use this selection to display the reporting status of all stations in the HSA for all measured parameters.

Station Reporting Status

List: Hours Ago Sort:

Location	Observation TimeZ	Latest Data Posted TimeZ
ABI	2001-01-05 22:00:00	2001-01-05 21:58:00
ACC02	2001-01-05 18:30:00	2001-01-05 18:43:37
ACD02	2001-01-05 19:00:00	2001-01-05 19:45:23
ACIT2	2001-01-05 13:00:00	2001-01-05 16:07:44
ADA02	2000-12-18 12:00:00	2000-12-18 17:15:57
ADH	2001-01-02 16:00:00	2001-01-02 16:00:12
ADS02	2001-01-05 21:00:00	2001-01-05 21:19:38
AFW	2001-01-02 16:00:00	2001-01-02 16:07:32
AKCK1	2000-12-31 13:00:00	2000-12-31 13:16:29
ALG02	2001-01-05 14:00:00	2001-01-05 16:07:44
ALLO2	2001-01-01 13:00:00	2001-01-02 16:41:53
ALLT2	2000-06-02 13:30:00	2000-06-02 14:43:19
ALS02	2001-01-05 21:00:00	2001-01-05 21:19:38
ALT02	2001-01-05 15:30:00	2001-01-05 16:24:09
ALV02	2001-01-05 13:00:00	2001-01-05 16:07:44
ALX02	2001-01-05 16:00:00	2001-01-05 16:24:09

Latest Data for Selected Location

Location	Phys	Typ	Dur	Src	Ex	ObsTimeZ	Value	SQ	QC	RV	Product Id	TimeZ	Posting TimeZ
ACD02	PC	0	RG	2		2001-01-05 19:00	1.47	2	G	F	NMCRSSOUN	2001-01-05 19:39	2001-01-05 19:45
ACD02	HP	0	RG	2		2001-01-05 19:00	1006.41	2	G	F	NMCRSSOUN	2001-01-05 19:39	2001-01-05 19:45
ACD02	TA	0	RG	2		2001-01-05 15:00	30.00	2	Q	F	NMCRSSOUN	2001-01-05 15:40	2001-01-05 16:03
ACD02	PP	2001	R2	2		2001-01-04 12:00	0.00	2	G	T	KTUARR6TUR	2001-01-04 18:36	2001-01-04 18:36
ACD02	QT	2001	R2	2		2001-01-04 06:00	0.00	2	G	F	KTUARR6TUR	2001-01-05 19:58	2001-01-05 19:58
ACD02	QT	0	RG	2		2000-12-22 12:00	0.00	2	G	F	KTUARR6TUR	2000-12-22 17:20	2000-12-22 17:21
ACD02	PP	1001	R2	2		2000-11-01 07:00	0.00	2	G	T	KTUARR6TUR	2000-11-01 18:31	2000-11-01 18:32

Current TimeZ: 2001-01-05 22:12:21 Telemetry Reports Every: N/A Minutes DCP Reports Every: 240 Minutes Starting: 03:33:00

Close

Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Station Reporting Status/Latest Observations**.

Notes:

- Station List options include - All Locations With Latest Data, Only Locations With Latest Data Older Than [Hours Ago parameter], and Locations Without Any Latest Data.
- Hours Ago selection at the top of the window is based on observation time and applies only to Only Locations With Latest Data Older Than option.
- Other than setting the Hours Ago parameter, no information or data can be changed in this window.
- Use of the Station Reporting Status requires the shef_post_latest token to be set to ON in the /awips/hydroapps/.Apps_defaults_site file.

Point Precipitation Accumulations - Use this option to select then display precipitation accumulation information for the selected point.

Initial display - use to select point(s) and other parameters for display

Display selections made

Click **Load Data** to retrieve and display selected information

Information display generated by **Load Data** and selected parameters

Click to save report to a separate disk file

Click to send report to the local printer

Point Precipitation Accumulations

Select: Data Sources Endtime/Durs: 2001-01-05 18:00:00

Options: ☐ Show Details ☒ Add PP reports as needed

Sort: Location

Load Data

Precipitation ending: 2001-01-05 18:00:00 for hr duration: 12 24 48 72
 Listing created: 2001-01-05 22:23:09
 PP values indicated by a 's' are summation of PP reports.
 Number of hours covered for each duration are shown in parentheses.

Location	PE	TS	12 hr	24 hr	48 hr	72 hr
ABI	PP	RZ	0.00	0.00	0.00	0.00 (12.0s/24.0s/42.0s/66.0s)
ACD02	PC	RG	0.00	0.00	0.11	0.12 (10.0/24.0/48.0/72.0)
ACD02	PP	RZ	MSG	MSG	0.00	0.00 (0.0/0.0/18.0/24.0)
ACIT2	PP	RZ	0.00	0.00	0.00	0.00 (7.0/19.0/43.0s/67.0s)
ADSO2	PC	RS	0.06	0.56	1.15	1.26 (12.0/23.0/46.0/69.0)
ADSO2	PP	RZ	0.00	0.00	0.00	0.00 (7.0s/19.0s/25.0s/25.0s)
AFW	PP	RZ	MSG	MSG	MSG	MSG (0.0/0.0/0.0/0.0)
ALCO2	PP	RZ	0.00	0.00	0.00	0.00 (8.0/20.0/44.0s/48.0s)
ALSO2	PC	RS	0.00	0.06	0.30	0.31 (12.0/23.0/46.0/70.0)
ALSO2	PP	RZ	0.00	0.00	0.00	0.00 (6.0/18.0/24.0/24.0)
ALTO2	PC	RG	0.00	0.00	0.67	0.67 (7.5/21.5/45.5/69.5)
ALTO2	PP	RZ	0.00	0.00	0.00	0.00 (8.0/20.0/44.0s/68.0s)
ALVQ2	PP	RZ	0.00	0.00	0.00	0.00 (7.0/19.0/43.0s/67.0s)
ALXQ2	PC	RG	0.00	0.00	0.02	0.10 (7.0/22.0/46.0/70.0)
ALXQ2	PP	RZ	MSG	MSG	0.00	0.00 (0.0/0.0/18.0/24.0)
AMTT2	PC	RG	0.00	0.00	0.00	0.01 (12.0/24.0/48.0/72.0)
ANAO2	PP	RZ	0.00	0.00	0.00	0.00 (7.8/19.8/43.3s/67.3s)

Close Save Print

Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Point Precipitation Accumulations**.

Notes: Specify display and data options, then *Click* **Load Display** to retrieve and display the selected information.
 Precipitation data are retrieved and accumulated "on-the-fly" when **Load Display** is *Clicked*, thereby providing up-to-the-minute information for review.

Station Profile Window - Use this selection to display geophysical information and current stage data for the selected station and other stations along the reach.

Station information and data includes -

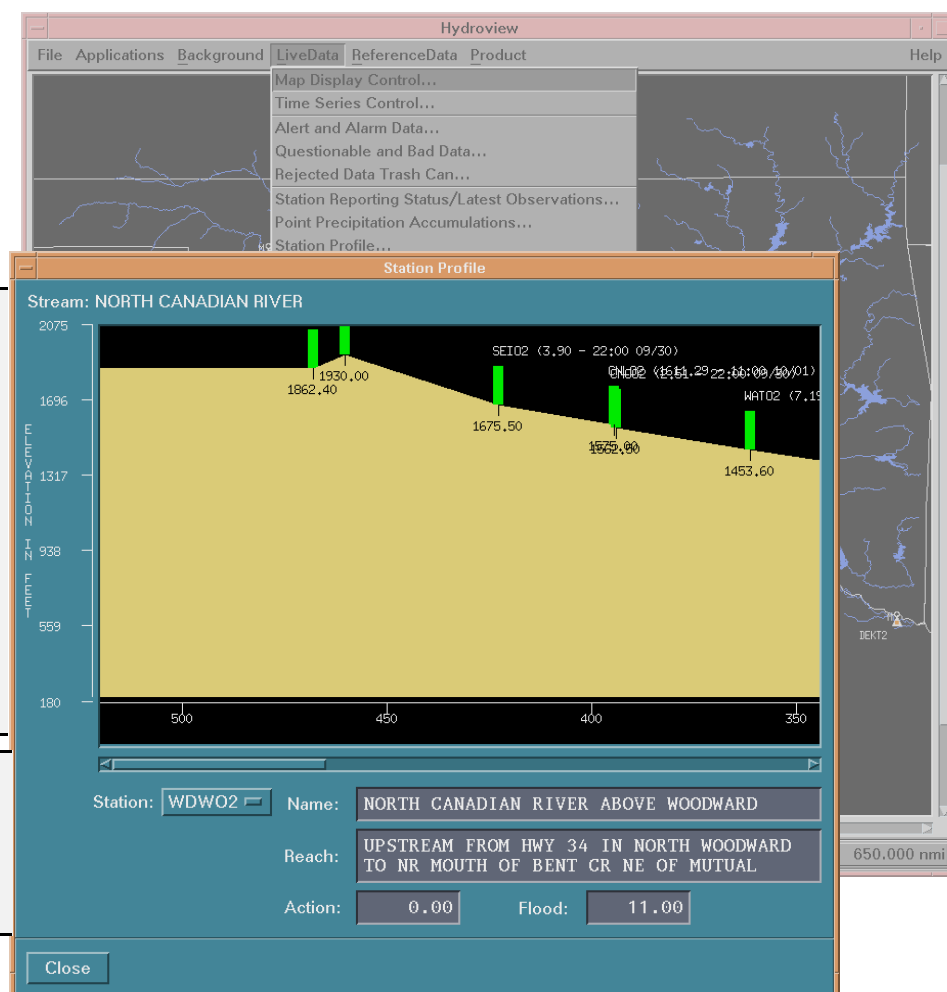
Station ID with latest stage and associated time and date

Color coded stage bar
 green = below flood stage
 yellow = above action stage
 red = above flood stage

Actual elevation (ft, MSL)

Click to select any station along the reach

Information to be displayed for the selected station



Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Station Profile**.

Notes: This display is read-only, changes to data or information cannot be made. The ordinate of the graphical display is feet above mean sea level (MSL), the abscissa is river miles.

River Summary Window - Use this selection to display currently available stage data for all stations along a selected stream.

Click on stream of interest, stations indicated will have maximum stage (Current Observed or Maximum Forecast) or Observed only or Forecast only displayed below in graphical form.

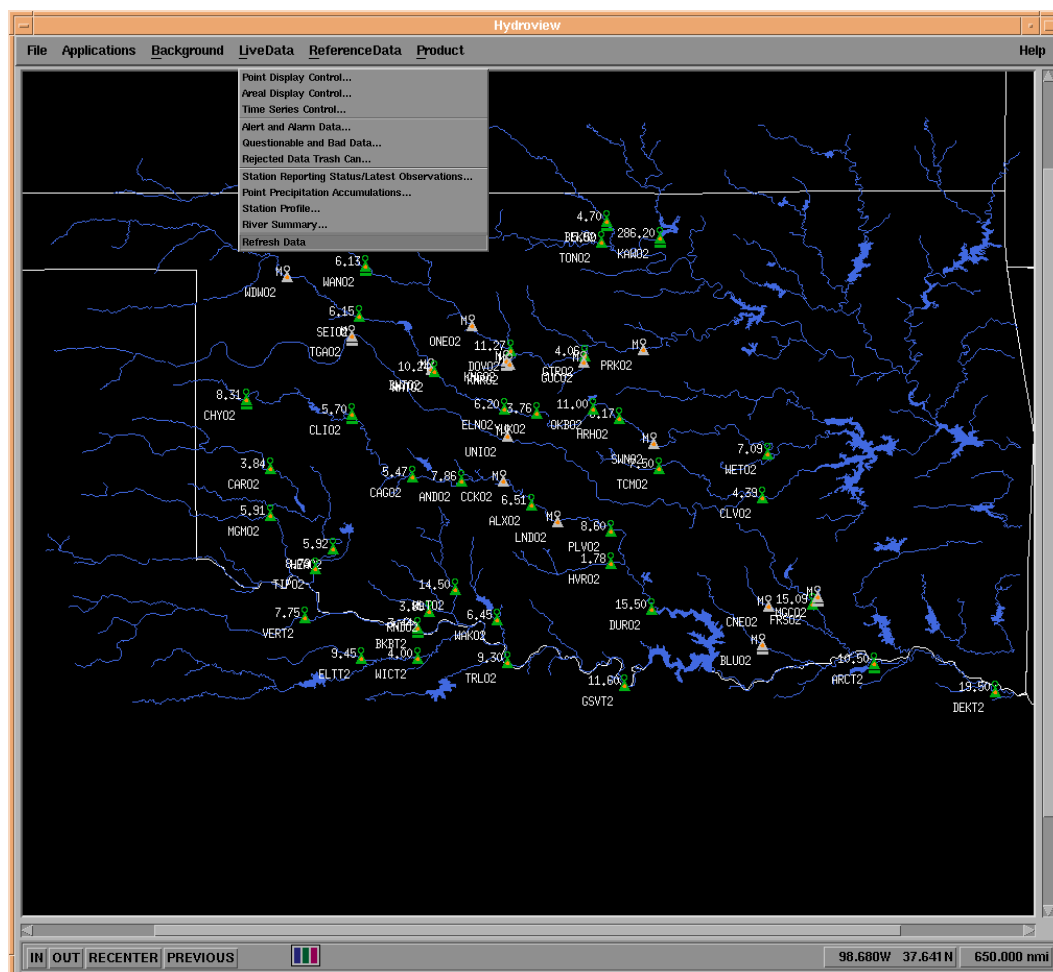
Stage displayed in graphical form along with reference values (below action stage - green, above action stage - yellow, above flood stage - red). Station identifiers and observation times are listed below the graphic for each station.



Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **River Summary**.

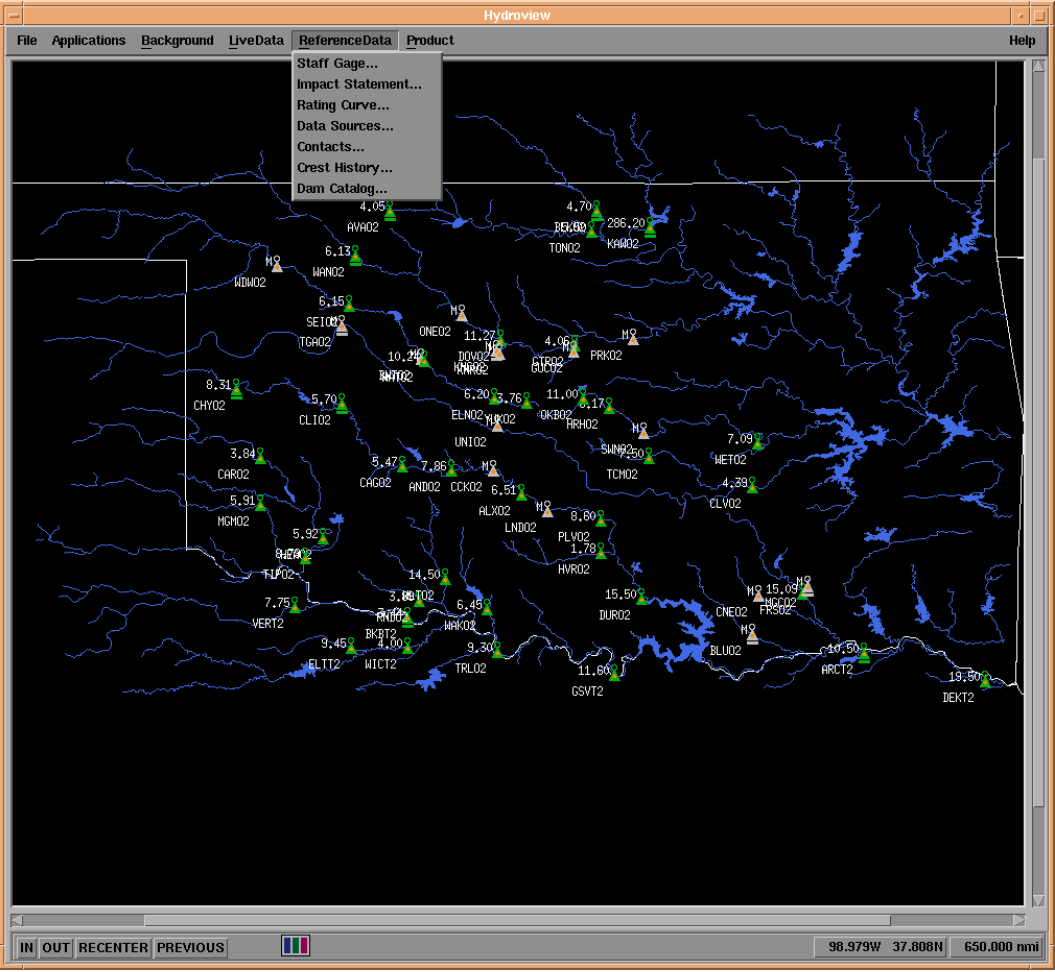
Notes: Stations are ordered by river mile.
Any missing data are indicated in the Date/Time category below each graphic.

Refresh Data - Use this selection to load the latest available data for all locations. The system automatically refreshes the display every 15 minutes.



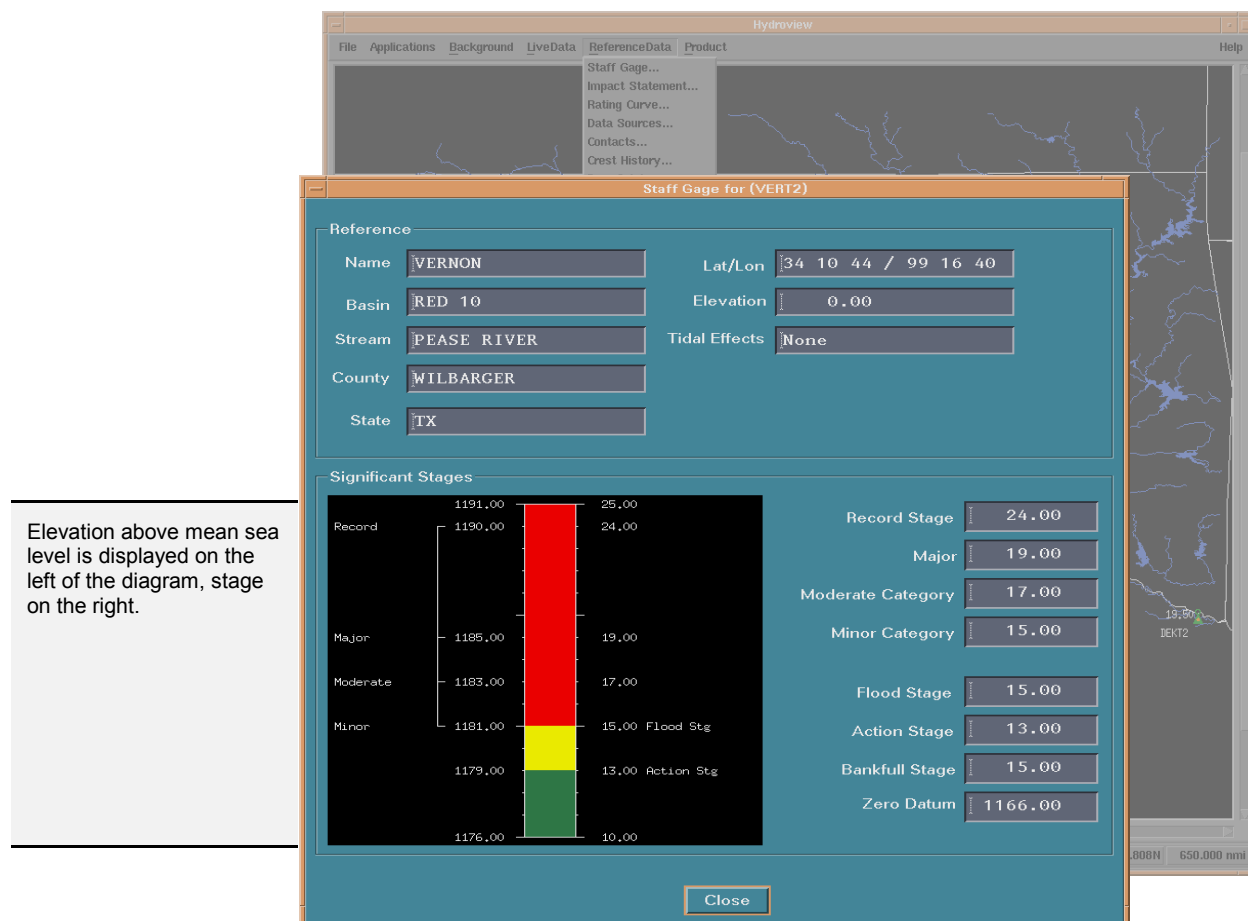
Access this selection from the **Root Window** by *Clicking* on **LiveData**, then on **Refresh Data**.

Root Window (Reference Data selected from the MenuBar) - Use this selection to display background information and data for a selected station.



Access this selection from the **Root Window** by *Clicking* on **Reference Data**.

Staff Gage Window - Use this selection to display gage background information for a selected station.



Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, then on **Staff Gage**.

Notes: This display is read-only, changes to data or information cannot be made. The stage display is color coded - **Red** = Above Flood Stage, **Yellow** = Above Action Stage, **Green** = Below Action Stage. Select station in **Geographic Display** or through **Station Selection Window**.

Impact Statement Window - Use this selection to display the impact statements for various stages for a selected station.

Select a stage to review associated impact statement

Impact Statement for (VERT2)

Stage:	Begin:	End:	Tendency:
23.00	01/01	12/31	RISING
21.00	01/01	12/31	RISING
20.00	01/01	12/31	RISING
19.00	01/01	12/31	RISING
18.00	01/01	12/31	RISING
17.00	01/01	12/31	RISING
16.00	01/01	12/31	RISING
15.00	01/01	12/31	RISING

Characteristics

Stage: Begin (Seasonal):

Tendency: ☒ Rising ☐ Falling End (Seasonal):

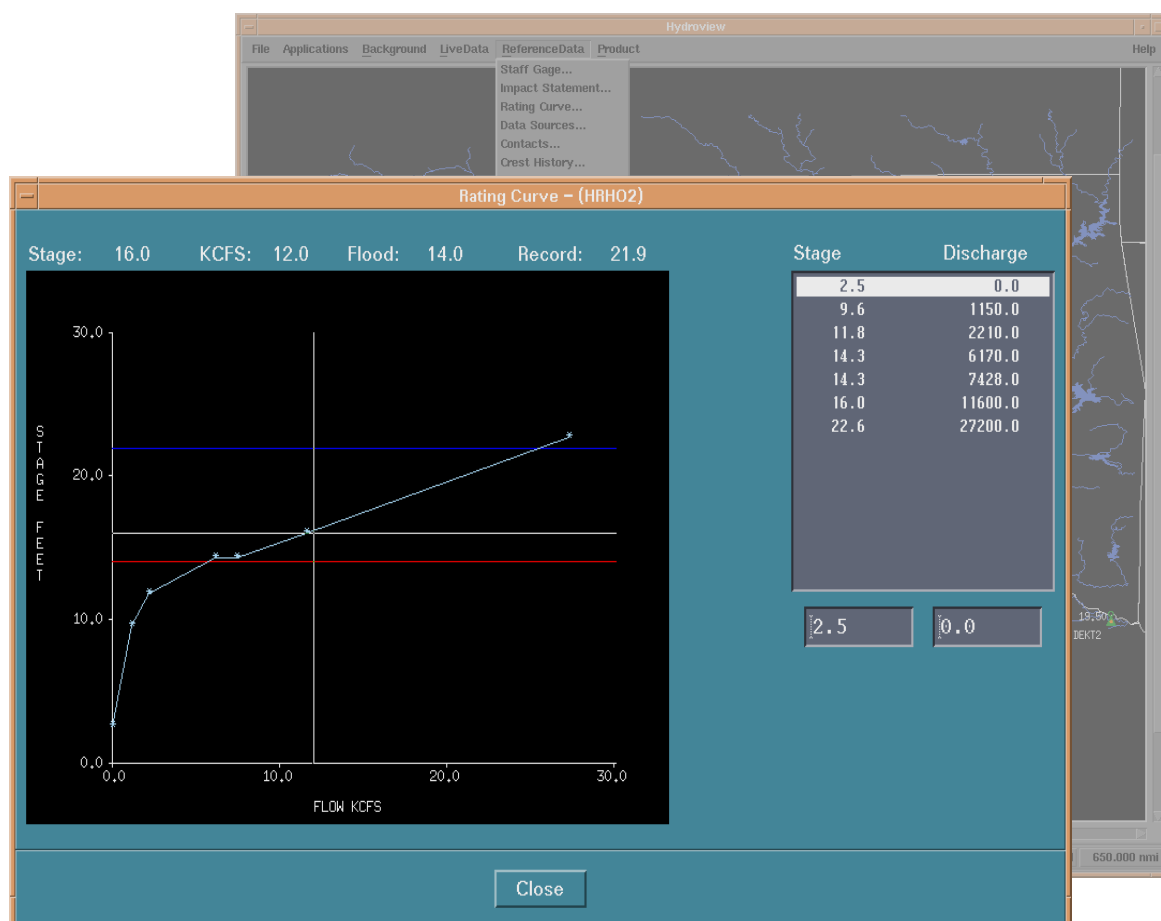
Impact

FARM AN RANCH LANDS AND RURAL ROADS WILL SEE VALLEY-WIDE OVERFLOWS, AT DEPTHS UP TO ABOUT EIGHT FEET. HOMES AND BUSINESSES IN NORTH VERNON MAY EXPERIENCE FLOOD DEPTHS OF 4 TO 6 FEET, ACCOMPANIED BY VERY DANGEROUS CURRENTS.

Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, then on **Impact Statement**.

Notes: This display is read-only, changes to data or information cannot be made. Select station in **Geographic Display** or through **Station Selection Window**. Default seasonal display is January - December, however there may be specific seasonal impact statements if flooding affects certain locations such as recreation areas.

Rating Curve Window - Use this selection to display the rating curve for a selected station.

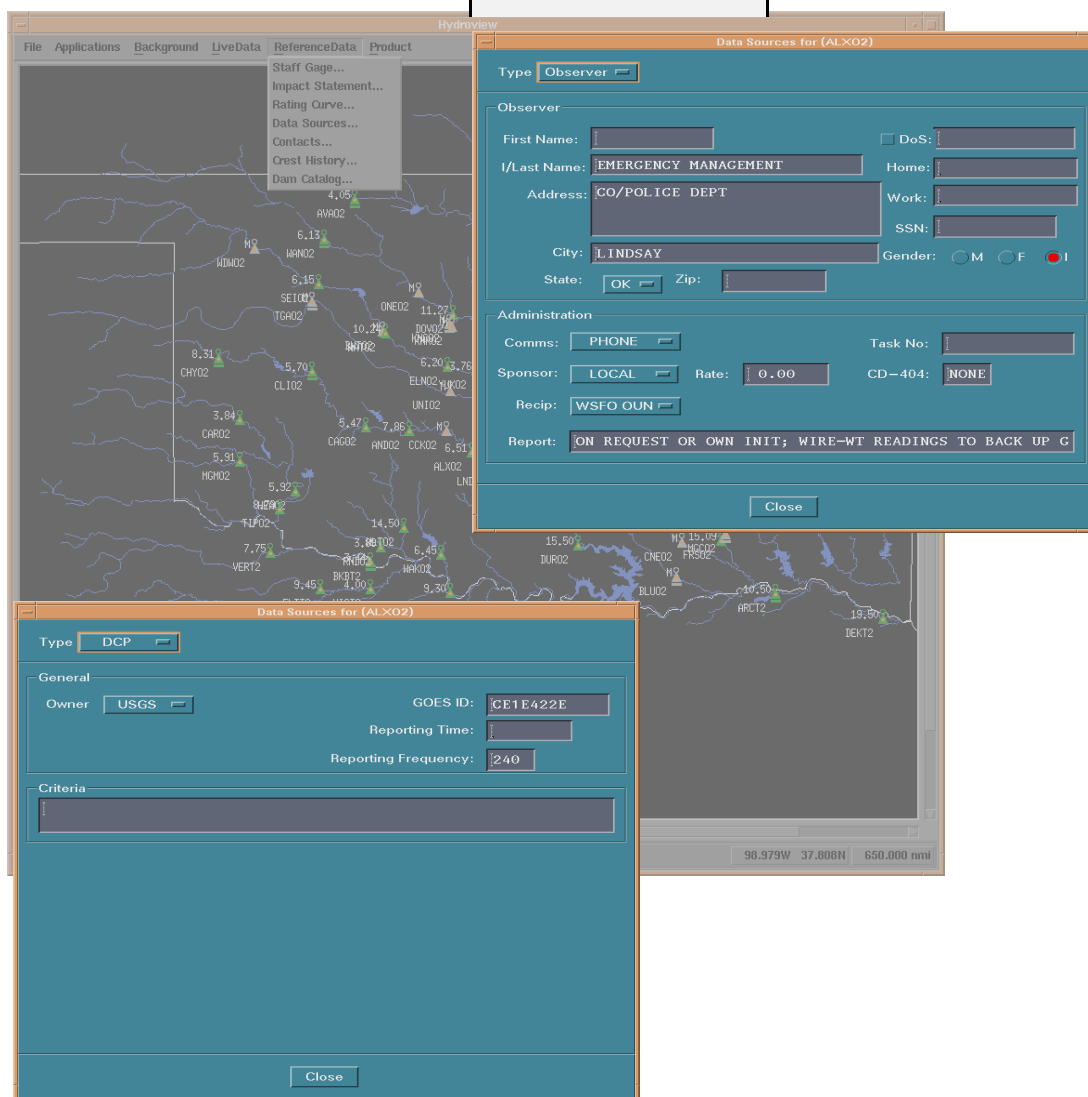


Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, then on **Rating Curve**.

Notes: This display is read-only, changes to data or information cannot be made. Select station in **Geographic Display** or through **Station Selection Window**. Raw data used in generating the curve is displayed on the right. Record flood level will be shown with a blue horizontal line, flood stage will be shown with a red horizontal line. *Clicking* on the graph display will produce crosshairs to aid in reading the curve - flow and stage values corresponding to the crosshair location are shown at the top.

Data Sources Window - Use this selection to display information on data sources (e.g., observers) for a selected station. Screens for Observer and DCP are shown.

Click on DCP, Observer, or Telemetry to display information



Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, then on **Data Sources**.

Notes: Select DCP, Observer, or Telemetry to view corresponding information. These displays are read-only, changes to data or information cannot be made. Select station in **Geographic Display** or through **Station Selection Window**.

Contacts Window - Use this selection to display background information (e.g., telephone numbers) for the contact(s) for a selected station.

Click on a contact name to display information (as shown below)

Sequence	Contact	Phone
1	2 LINDSAY EMGY MGMT	405-756-3111
1	3 ALEX POLICE	405-785-2393
1	1 LINDSAY POLICE DEPT	405-756-4481
1	4 GRADY COUNTY EMGY MGMT	405-222-2339
1	US GEOLOGICAL SURVEY	405-843-7570
1	5 GRADY CO SHERIFF	405-224-0984
1	6 GARVIN CO SHERIFF	405-238-7591

Information:

Sequence: Contact: Phone:

Concerns:

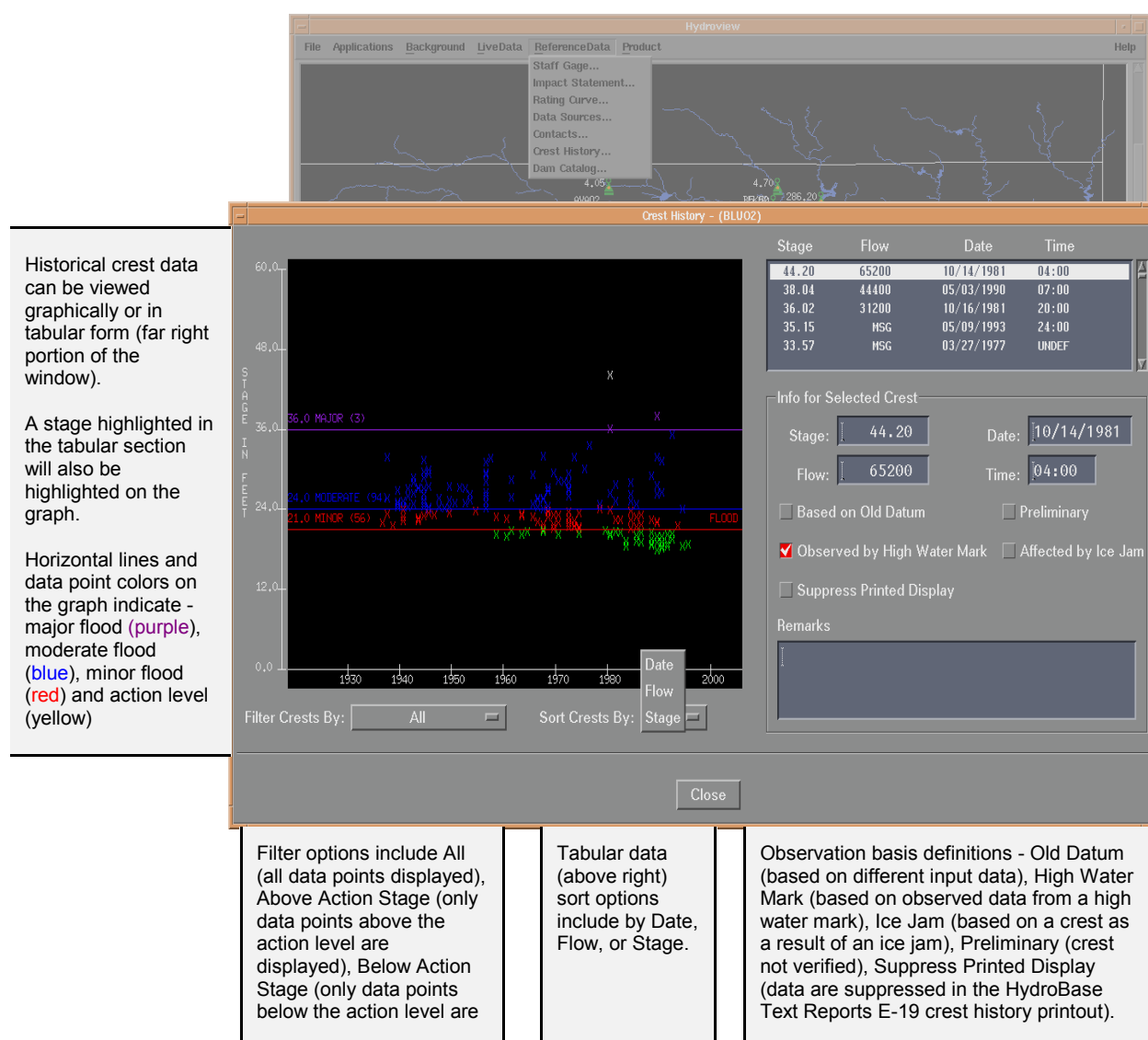
CALL POLICE FIRST!! THEY WILL CONTACT ALAN WILSON VIA RADIO. HOME: 756-3046
ABOUT 40% OF LINDSAY INUNDATED IN MAY 1987

Close

Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, then on **Contacts**.

Notes: This display is read-only, changes to data or information cannot be made.
Contacts are listed in order of importance.
Select station in **Geographic Display** or through **Station Selection Window**.

Crest History Window - Use this selection to display data and information for historical crests for a selected station.



Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, then on **Crest History**.

Notes: This display is read-only, changes to data or information cannot be made. Select station in **Geographic Display** or through **Station Selection Window**.

Dam Catalog Window - Use this selection to display information on dams within the HSA. The initial dam catalog window (damcat) is displayed below.

Use Search/Filter Criteria to select dam(s) to view - General Information, Physical Dimensions, Reservoir and Agency Information and Dam Break Information (model output).

Select the required search criteria, then *Click* Apply Filter. The dam(s) which meet the criteria will be displayed above.

Click on Exit to close. A dialogue box will appear, Click Accept to Exit.

Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, on **Dam Catalog**, then on **OK** in the **Running Dam Catalog Dialogue Box** .

Notes: Since the dam catalog contains available data for a large number of dams, the Search/Filter criteria must be used to limit the dams listed (be prepared for a delay when using the Search/Filter because of the size of the data file). An example of a list of dams selected using the Search/Filter criteria is shown on the following page. Buttons that are grayed-out are only active in HydroBase.

Dam Catalog Window (List of Selected Dams) - Displayed below is an example list of dams generated after using Search/Filter Criteria.

Click on dams of interest and then on View to review General Information, Physical Dimensions, Reservoir or Agency Information and Dam Break Information. Select multiple dams by holding down the 'Ctrl' keyboard button.

damcat

List of Dams which meet the criteria below

Dam ID	Name	River	Town	State	County	Lat	Long	WFO	RFC	Hazard
KS00001	COUNCIL GROVE	NEOSHO RIVER	COUNCIL GROVE	KS	MORRIS	38.68	96.00	TOP	TUR	H
KS00002	ELK CITY	ELK CITY	INDEPENDENCE	KS	MONTGOMERY	37.28	96.78	ICT	TUR	H
KS00003	FALL RIVER	FALL RIVER	FALL RIVER	KS	GREENWOOD	37.65	96.07	ICT	TUR	H
KS00011	TORONTO	VERDIGRIS RIVER	COYVILLE	KS	WOODSON	37.74	95.93	ICT	TUR	H
KS00017	CHENEY	NORTH FORK MINNESCAH	CHENEY	KS	SEDGWICK	37.73	97.79	ICT	TUR	H
KS00027	EL DORADO LAKE	WALNUT RIVER	EL DORADO	KS	BUTLER	37.85	96.82	ICT	TUR	H
KS00041	KSNAME 41	TR BADGER CREEK	AUGUSTA	KS	BUTLER	37.76	97.06	ICT	TUR	S

Number of Dams: 6763

Search/Filter Criteria

ID: Name:

Downstream Town:

Contained within the area

Latitude: to

Longitude: to

County: ADAIR ALFALFA ALLEN State: ALASKA ALABAMA ARKANSAS River: -TR-BIG CEDAR CREEK -TR-MISSOURI RIVER 4-D CR

Hazard Level: HIGH LOW SIGNIFICANT RFC: SIL SLR TUR WFO: ABQ: Albuquerque, NM ABR: Aberdeen, SD AFC: Anchorage, AK

☒ Match ALL Criteria
 ☐ Match ANY Criteria

Sort Criteria

Sort list by the following field: ☒ ID ☐ Name ☐ River ☐ State/County

Use Sort Criteria to sort the displayed list of dams.

Access this selection from the **Root Window** by *Clicking* on **ReferenceData**, then on **Dam Catalog** (use the Sort/Filter Criteria to display a list of dam(s)).

Notes: Examples of data and information provided for each selected dam are shown on the following pages.
A list of Dam Catalog Field Definitions (used in this window and in dam information windows on the following page) is provided in Appendix C.
Buttons that are grayed-out are only active in HydroBase.

Dam Catalog Window (Information Examples) - Displayed below are examples of data and information available through Dam Catalog.

Dam Information
 General Information | Physical Dimensions | Reservoir Information | Agency Information | Dam Break Information

ID: K300003 Name: FALL RIVER

Name: FALL RIVER
 Other Name: FALL RIVER LAKE8

Latitude: 37.55 Longitude: 96.07 Section, Township, Range: 1
 River: FALL RIVER State: KANSAS
 Non-Federal dam located on federal property: ☐ Yes ☒ No County: GREENWOOD
 Owner Type: FEDERAL County FIPS: 73
 Owner: DAEN SWT
 Type: **ARCH**
 Purpose: **LOOD CONTROL AND STORM WATER MANAGEMENT**
 Year Completed: 1948
 Emergency Action Plan: YES Potential Hazard Downstream: HIGH
 Phase I Inspection: ☐ Yes ☒ No Last Inspection Date: 10-01-1989

Previous Dam Next Dam Save Dam Delete Dam Clear Page Close Help

General Information

Dam Information
 General Information | Physical Dimensions | Reservoir Information | Agency Information | Dam Break Information

ID: K300003 Name: FALL RIVER

General Information
 Length (feet): 6015 Structural Height (feet): 94
 Height (feet): 0 Hydraulic Height (feet): 85
 Volume (cubic yards): 3600000 NID Height (feet): 94

Spillway Information
 Spillway Type: CONTROLLED Spillway Width (feet): 400

Lock Information
 Number of Locks: 1 Locks Length (feet): 0 Locks Width (feet): 0

Previous Dam Next Dam Save Dam Delete Dam Clear Page Close Help

Physical Dimensions

Dam Information
 General Information | Physical Dimensions | Reservoir Information | Agency Information | Dam Break Information

ID: K300003 Name: FALL RIVER

Maximum Storage (acre-feet): 256400 Surface Area (acres): 2350
 Maximum Discharge (cu ft / sec): 223000 Drainage Area (sq miles): 345
 Normal Storage (acre-feet): 21900

Previous Dam Next Dam Save Dam Delete Dam Clear Page Close Help

Reservoir Information

Dam Information
 General Information | Physical Dimensions | Reservoir Information | Agency Information | Dam Break Information

ID: K300003 Name: FALL RIVER

Weather Forecast Office: JCT: Wichita, KS
 River Forecast Center: TUR
 Primary Source ID: 85790
 Primary Source: ICE Date: 12-07-1993
 State Regulatory: KS DWR
 Supplemental Federal Source: US ARMY CORPS OF ENGINEERS Date: 12-07-1993

Federal Agency Funding: US ARMY US AIR FORCE
 Federal Agency Construct: US ARMY US AIR FORCE
 Federal Agency Design: US ARMY US AIR FORCE
 Federal Agency Regulatory: US ARMY US AIR FORCE

Federal Agency Inspection: US ARMY US AIR FORCE
 Federal Agency Operation: US ARMY US AIR FORCE
 Federal Agency Owner: US ARMY US AIR FORCE
 Federal Agency Other: US ARMY US AIR FORCE

Previous Dam Next Dam Save Dam Delete Dam Clear Page Close Help

Agency Information

Access these selections from the **Root Window** by *Clicking* on **ReferenceData**, then on **Dam Catalog**, select the dam(s) of interest (see previous page) and *Click* on **View**.

Notes:

The General Information screen will always be displayed first, for other selections, *Click* appropriate button across the top of the screen.
 Buttons that are grayed-out are only active in HydroBase.

Dam Catalog Window (Dam Break Information Example) - Displayed below is an example of dam break forecast data and information available through Dam Catalog

Downstream information

Dam break forecast information, based on model output.

Click on View Another Forecast to see model output results from different model runs or different models, if available. When Clicking on View Another Forecast, the dialogue box shown at the right will appear and other model options can be selected.

Dam Information

General Information Physical Dimensions Reservoir Information Agency Information **Dam Break Information**

ID: KS00003 Name: FALL RIVER

Downstream Point Information

Name: FALL RIVER Channel Slope: 6.00

Distance from Dam (miles): 4.00 Invert Elevation (feet): 1

Viewing Forecast 1 of 1

AT DAM LOCATION:

Peak Flow / Time: 1261267.00 48.53 Estimated Breach Width: 376.00
(cfs) / (minutes) (feet)

Peak Depth / Time: 0.31 0.00 Estimated Fail Time: 18.80
(feet) / (minutes) (minutes)

AT DOWNSTREAM LOCATION:

Peak Flow / Time: 822126.81 0.00 Travel Time (minutes) from Dam to City/Town: 0.39
(cfs) / (minutes)

Peak Depth / Time: 39.83 0.70
(feet) / (minutes)

Flood Depth / Time: 1 1
(feet) / (minutes)

MODEL RUN INFORMATION:

Forecast Basis / Time: 11-15-1997 10-15-1997
(MM-DD-YYYY)

Model Run Type / Time: SIMPLE DAMBREAK 12-15-1997
(type) / (MM-DD-YYYY)

Description: Summer 1997

Clear Forecast Delete Forecast Save Forecast View Another Forecast

Previous Dam Next Dam Save Dam Delete Dam Clear Page Close Help

Selection List

SIMPLE DAMBREAK

Selection: SMPDBK

OK Clear Cancel Help

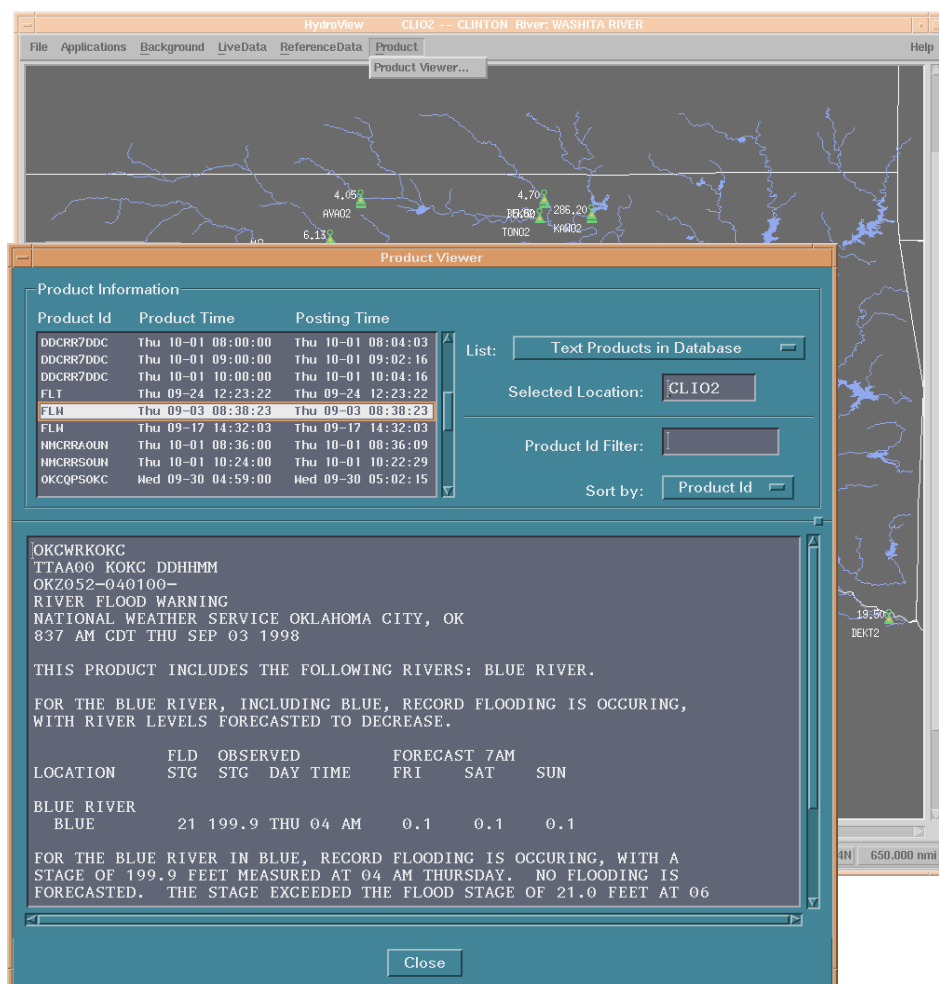
Dam break forecast selection dialogue box (above)

Access this selection from the **Root Window** by Clicking on **ReferenceData**, then on **Dam Catalog**, select the dam(s) of interest (see previous pages) and Click on **View**, then on **Dam Break Information**.

Notes: Simple Dambreak is set as the default model for dam break forecasts. Buttons that are grayed-out are only active in HydroBase.

Product Viewer Window - Use this selection to display various current and past issued products in the database (e.g., river statement, flood warning, RR1).

Click to select the product to display below (based on the product type selected in **List**:. Default is Products for Selected Location

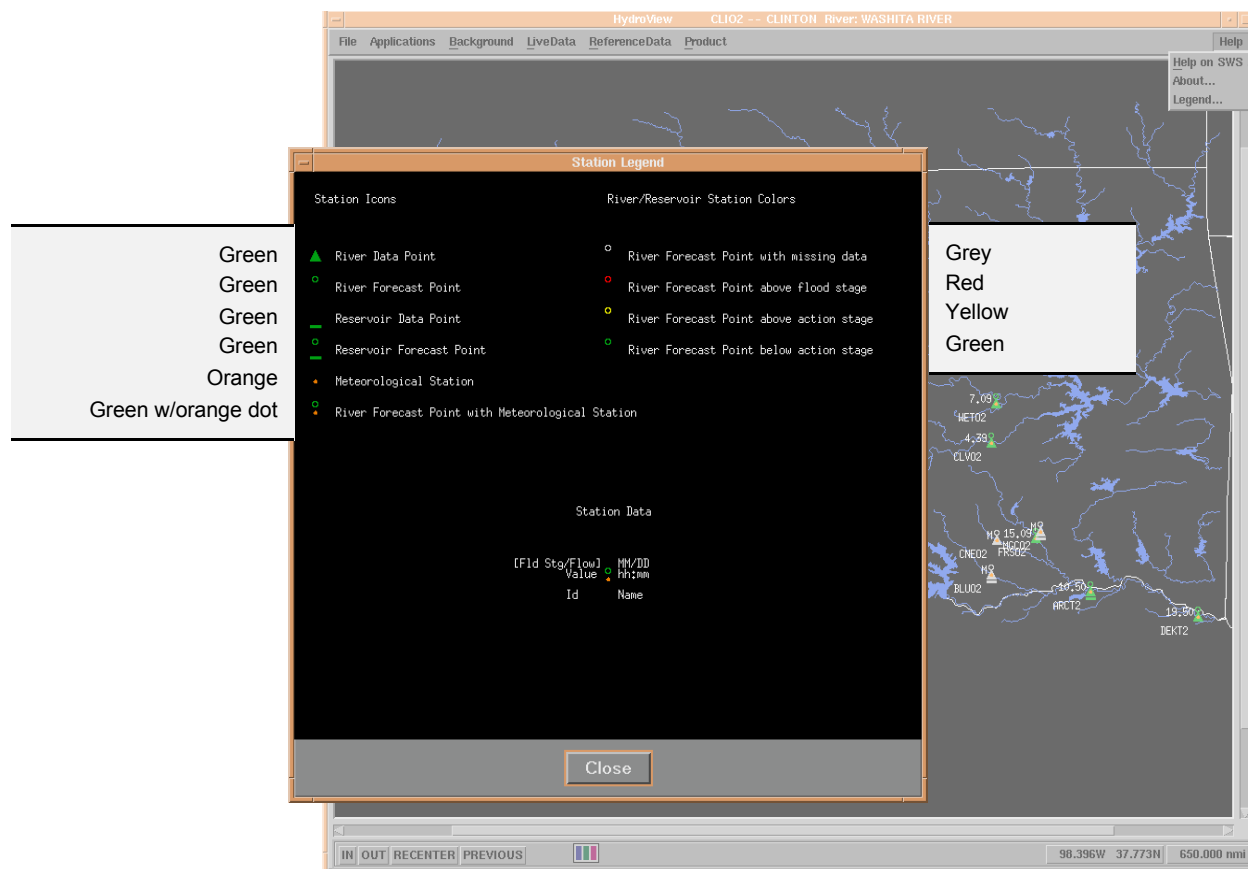


Access this selection from the **Root Window** by *Clicking* on **Product**, then on **Product Viewer**.

Notes:

- This display is read-only, changes to data or information cannot be made.
- Products can be sorted by ID, product time, or posting time.
- Use of the Product Viewer requires the shef_storetext token to be set to ON in the /awips/hydroapps/.Apps_defaults_site file.
- The number of versions of a specific product to be retained is defined in the HydroBase Data Ingest/Purge Parameters menu option. A product with 0 versions retained will not be able to be displayed in the Product Viewer.
- Product Id Filter** can be used to filter the Product Information list - type in the Product ID to sort by exactly (e.g., RVS, OKCRR1OKC) then *Click* on Product ID in the **Sort by**: box.
- Select station in **Geographic Display** or through **Station Selection Window**.

Station Legend Window - Use this window to decipher station icons displayed in the Geographic Display.



Access this selection from the **Root Window** by *Clicking* on **Help**, then on **Legend**.

Notes: Icons are color coded as noted above.
This screen is for informational purposes only.

The HydroView Operations Guide provided below is designed to provide the user with a quick reference summary of the primary features of HydroView and how to access them. The Guide is subdivided into sections specifically pertaining to the Geographic Display, those operations pertaining to a particular station and those operations pertaining to all stations. The RiverPro Functional Guide, which follows the Operations Guide, provides more detail on the procedures to perform various functions in RiverPro.

HydroView Operations Guide

Operation	Window to Use	Getting to the Window
For the Geographic Display		
Manage the Geographic Display (Point Data Icons) <ul style="list-style-type: none"> •Station type displayed •Information displayed •Data displayed •Time periods displayed 	Point Display Control Window	Start - Root Window Select - LiveData (Menu Bar) Click - Map Display Control Click - Page: Point Data Click - Selections of choice
Manage the Geographic Display (Areal Data) <ul style="list-style-type: none"> •Mean Areal Precipitation 	Areal Display Control Window	Start - Root Window Select - LiveData (Menu Bar) Click - Map Display Control Click - Page: Areal Data Click - MAP of choice Click - Product of choice
Manage the Geographic Display (Areal Data) <ul style="list-style-type: none"> •Flash Flood Guidance 	Areal Display Control Window	Start - Root Window Select - LiveData (Menu Bar) Click - Map Display Control Click - Page: Areal Data Click - FFG of choice Click - Product of choice

HydroView Operations Guide

Operation	Window to Use	Getting to the Window
Manage the Geographic Display (Areal Data) •Stage I and II Data	Areal Display Control Window	Start - Root Window Select - LiveData (Menu Bar) Click - Map Display Control Click - Page: Areal Data Click - Stage of choice Click - Product of choice
Manage Geographic Display (Background)	Root Window	Start - Root Window Select - Background (Menu Bar) Click - Background of choice
Decipher Station Icon Coding	Station Legend	Start - Root Window Select - Help (Menu Bar) Click - Legend
Load Latest Available Data (within the last 15 minutes)	Root Window	Start - Root Window Select - LiveData (Menu Bar) Click - Refresh Data
To Select a Station		
Select Station	Station Selection Window	Start - Root Window Select - Background (Menu Bar) Select - Station Selection Click - Station of choice

HydroView Operations Guide

Operation	Window to Use	Getting to the Window
Select Station (Alternate Approach)	Root Window	Start - Root Window (Graphical Display) Click - Station icon (<u>Single</u> click only, directly on icon)
Select a Station Before Performing the Following		
Review Current and Past Time Series for Observed and Forecast Data for Selected Station	Time Series Control Window	Start - Root Window Select - LiveData (Menu Bar) Select - Time Series Control Click Graph or Table
Review Current and Past Time Series for Observed and Forecast Data for Selected Station (Alternate Approach)	Root Window	Click - Station icon (<u>Double</u> click, directly on icon) Click - Graph or Table
Review and Edit Current and Past Observations in Tabular Form for Selected Station (Including Deletion and Insertion of Observations)	Tabular Time Series Display Window	Start - Root Window Select - LiveData (Menu Bar) Select - Time Series Control Click - Table
Review Geophysical Information and Current Stage Data (Selected Station and Other Stations Along the Reach)	Station Profile Window	Start - Root Window Select - LiveData (Menu Bar) Select - Station Profile

HydroView Operations Guide

Operation	Window to Use	Getting to the Window
Review Questionable and Bad Data Detected During the Quality Control Process	Questionable and Bad Data Window	Start - Root Window Select - LiveData (Menu Bar) Select - Questionable and Bad Data Click - Filter By: Location (View by station and/or by data parameter)
Review and Save or Delete Manually or Automatically Rejected Observations	Rejected Data Trash Can Window	Start - Root Window Select - LiveData (Menu Bar) Select - Rejected Data Trash Can Click - Filter By: Location
Review Background Gage Information (e.g., geophysical, record stages, flood stage)	Staff Gage Window	Start - Root Window Select - ReferenceData (Menu Bar) Select - Staff Gage
Review Default Impact Statements for Various Stages	Impact Statement Window	Start - Root Window Select - ReferenceData (Menu Bar) Select - Impact Statement
Review Existing Rating Curve	Rating Curve Window	Start - Root Window Select - ReferenceData (Menu Bar) Select - Rating Curve

HydroView Operations Guide

Operation	Window to Use	Getting to the Window
Review Background Information on Data Sources •Observers •DCPs •Telemetry	Data Sources Window	Start - Root Window Select - ReferenceData (Menu Bar) Select - Data Sources Select - Type
Review Background Information for Contacts (e.g., telephone numbers, concerns)	Contacts Window	Start - Root Window Select - ReferenceData (Menu Bar) Select - Contacts
Review Various Current and Past Issued Products in the Database (e.g., river statements, flood warnings, RR1)	Product Viewer Window	Start - Root Window Select - Product (Menu Bar) Select - Product Viewer
Review Information and Data for Any Available Historical Crest	Crest History Window	Start - Root Window Select - ReferenceData (Menu Bar) Select - Crest History
For All Stations		
Review Reporting Status for All Stations	Station Reporting Status/Latest Observations Window	Start - Root Window Select - LiveData (Menu Bar) Select - Station Reporting Status/Latest Observations

HydroView Operations Guide

Operation	Window to Use	Getting to the Window
Review Data that have Exceeded Alert and Alarm Thresholds	Alert and Alarm Data Window	Start - Root Window Select - LiveData (Menu Bar) Select - Alert and Alarm Data
Review all Questionable and Bad Data Detected During the Quality Control Process	Questionable and Bad Data Window	Start - Root Window Select - LiveData (Menu Bar) Select - Questionable and Bad Data (Sort by Location or Time)
Review and Save or Delete Manually or Automatically Rejected Observations	Rejected Data Trash Can Window	Start - Root Window Select - LiveData (Menu Bar) Select - Rejected Data Trash Can Click - Filter By: Physical Element
Display Up-to-the-Minute Precipitation Accumulation Information for a Selected Point	Point Precipitation Accumulations Window	Start - Root Window Select - LiveData (Menu Bar) Select - Point Precipitation Accumulations Select - desired point(s) and other parameters Click - Load Data

HydroView Operations Guide

Operation	Window to Use	Getting to the Window
For the HydroView System		
To Exit from HydroView	Root Window	Start - Root Window Select - File Select - Exit

The following HydroView Functional Guide provides examples of various functions which can be performed in HydroView. This guide can be used as an application tool to exercise some of the more pertinent HydroView capabilities. For some HydroView functions there are alternative approaches to view data and information over what is presented in the Functional Guide. The application of these alternatives is at the discretion of the user.

HydroView Functional Guide

Function	Window to Use	Procedure
Display Basin Boundaries	Root Window (Geographic Display)	Start - Root Window Select - Background (Menu Bar) Select - Basins Basins will be shown on Geographic Display. Other overlays can also be displayed using this same procedures.
Display Radar Umbrella(s)	Root Window (Geographic Display)	Start - Root Window Select - Background (Menu Bar) Select - Radars Radar umbrellas will be shown on Geographic Display.

HydroView Functional Guide

Function	Window to Use	Procedure
<p>Display Precipitation Accumulation for the Past 24 Hours at all Stations Collecting Precipitation Data</p> <p>(Note - due to the large number of precipitation stations, it may be easier to read the display if the station name and ID are suppressed and the zoom-in feature is used.)</p>	Point Display Control Window	<p>Start - Root Window</p> <p>Select - LiveData (Menu Bar)</p> <p>Select - Map Display Control</p> <p>Click - Page: Point Data</p> <p>Click - Precip (Station Icons and Data) under <i>Point Data Filter</i></p> <p>Click - Suppress: Zeroes and Missing under <i>Precip:</i></p> <p>Click - Set Time Period under <i>Precip:</i></p> <p>Click - Set Time</p> <p>Click - 24</p> <p>Click - OK (Return to Root Window)</p> <p>Click anywhere on the display to activate request; data will be displayed with icons.</p>
<p>Determine Which Stations Report Precipitation</p>	Root Window (Geographic Display)	<p>Start - Root Window</p> <p>Select - LiveData (Menu Bar)</p> <p>Select - Map Display Control</p> <p>Click - Page: Point Data</p> <p>Click - Precip (Station Icons Only) under <i>Point Data Filter</i></p> <p>Click - Name under <i>Point Data Options</i> (optional)</p> <p>Click anywhere on display to activate request. (Note: Need not suppress zeroes or missing under <i>Precip:</i>)</p>

HydroView Functional Guide

Function	Window to Use	Procedure
Review Precipitation Accumulation at a Station in Graphical Form	Time Series Control Window Graphical Time Series Display Window	<p>Start - Root Window</p> <p>Select - LiveData (Menu Bar)</p> <p>Select - Time Series Control</p> <p>Select a Station (Must be a station that reports precipitation)</p> <p>Click - Station of Choice</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Select appropriate Physical Element/TypeSource Codes</p> <p>Select - Graph</p> <p>Precipitation Accumulator is a default display.</p>
Review Action and Flood Stages at a Station	Staff Gage Window	<p>Start - Root Window</p> <p>Select - Background</p> <p>Select - Station Selection</p> <p>Click - Station of Choice</p> <p>Click - Cancel (Return to Root Window)</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Select - ReferenceData (Menu Bar)</p> <p>Select - Staff Gage</p> <p>Information will be displayed in the window.</p>

HydroView Functional Guide

Function	Window to Use	Procedure
Determine Flood Impacts for Certain Stages at a Station	Impact Statement Window	<p>Start - Root Window</p> <p>Select - Background</p> <p>Select - Station Selection</p> <p>Click - Station of Choice</p> <p>Click - Cancel (Return to Root Window)</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Select - ReferenceData (Menu Bar)</p> <p>Select - Impact Statement</p> <p>Click - Stage of Choice</p> <p>Impact statement will be displayed in the window.</p>
Determine Record Flood Levels at a Station	Staff Gage Window	<p>Start - Root Window</p> <p>Select - Background</p> <p>Select - Station Selection</p> <p>Click - Station of Choice</p> <p>Click - Cancel (Return to Root Window)</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Select - ReferenceData (Menu Bar)</p> <p>Select - Staff Gage</p> <p>Information will be displayed in the window.</p>

HydroView Functional Guide

Function	Window to Use	Procedure
Enter a New Observation for a Station	Time Series Control Window Tabular Time Series Display Window	<p>Start - Root Window</p> <p>Select - LiveData</p> <p>Select - Time Series Control</p> <p>Select a station</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Click - Table</p> <p>Select data type to modify</p> <p>Enter new data</p> <p>Click - Update/Insert (incorporates change and keeps window active)</p> <p>Value entered permanently into data base until deleted.</p>

HydroView Functional Guide

Function	Window to Use	Procedure
Delete an Erroneous River Stage Observation for a Station	Time Series Control Window Tabular Time Series Display Window	<p>Start - Root Window</p> <p>Select - LiveData</p> <p>Select - Time Series Control</p> <p>Select a station</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Click - Table</p> <p>Select data type to modify.</p> <p>Highlight data to delete</p> <p>Click - Delete selected (incorporates change and keeps window active)</p> <p>Value deleted permanently from data base unless re-entered.</p>
Determine the Appropriate Contact(s) for a Station	Contacts Window	<p>Start - Root Window</p> <p>Select - Background</p> <p>Select - Station Selection</p> <p>Click - Station of Choice</p> <p>Click - Cancel (Return to Root Window)</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Select - ReferenceData (Menu Bar)</p> <p>Select - Contacts</p> <p>Contacts, along with telephone numbers, will be displayed listed in order of importance.</p>

HydroView Functional Guide

Function	Window to Use	Procedure
Retrieve the physical dimensions of a dam in the WFO service area	Dam Catalog Window	<p>Start - Root Window</p> <p>Select - Reference Data (Menu Bar)</p> <p>Select - Dam Catalog</p> <p>Use the Search/Filter Criteria to select the dam(s) to view (the list of dam(s) matching the criteria will then be displayed).</p> <p>Click - on the dam(s) of interest from the displayed list</p> <p>A screen displaying General Information for the first dam selected will be displayed</p> <p>If this is the dam of interest, Click on Physical Dimensions at the top of the screen, the information will be displayed</p> <p>If this is not the dam of interest, Click on Next Dam button at the bottom of the screen until the appropriate dam is displayed</p>

HydroView Functional Guide

Function	Window to Use	Procedure
Review Past Products Issued for a Station	Product Viewer Window	<p>Start - Root Window</p> <p>Select - Background</p> <p>Select - Station Selection</p> <p>Click - Station of Choice</p> <p>Click - Cancel (Return to Root Window)</p> <p>(Alternatively select station by <u>single</u> clicking on station of choice in Geographic Display)</p> <p>Select - Product (Menu Bar)</p> <p>Select - Product Viewer</p> <p>Click - List: Products for Selected Station</p> <p>Click - Product of choice to review in Product Information Window (Products can be sorted or filtered by ID)</p>